



# INTERACT

Bologna, Italy, 9-11 February 2022

**Subject:** Annexes of the 2<sup>nd</sup> Management Committee Meeting and 1<sup>st</sup> Technical Meeting of COST Action CA20120 “The Intelligence-Enabling Radio Communications for Seamless Inclusive Interactions (INTERACT)”

## **List of Annexes**

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## Full name per Country

### Austria

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TD Number	TD Author	TD Title	TD Abstract	TD WG
<p><b>TD(22)01002</b></p>	<p>Esteban Egea-Lopez, Jose Maria Molina-Garcia-Pard1, Martine Lienard, Pierre Degauque, Leandro Juan-Llacer</p>	<p>Opal: An open source ray-tracing propagation simulator for electromagnetic characterization</p>	<p>Accurate characterization and simulation of electromagnetic propagation can be obtained by ray-tracing methods, which are based on a high frequency approximation to the Maxwell equations and describe the propagating field as a set of propagating rays, reflecting, diffracting and scattering over environment elements. However, this approach has been usually too computationally costly to be used in large and dynamic scenarios, but this situation is changing thanks the increasing availability of efficient ray-tracing libraries for graphical processing units. In this paper we present Opal, an electromagnetic propagation simulation tool implemented with ray-tracing on graphical processing units, which is part of the Veneris framework. Opal can be used as a stand-alone ray-tracing simulator, but its main strength lies in its integration with the game engine, which allows to generate customized 3D environments quickly and intuitively. We describe its most relevant features and provide implementation details, highlighting the different simulation types it supports and its extension possibilities. We provide application examples and validate the simulation on demanding scenarios, such as tunnels, where we compare the results with theoretical solutions and further discuss the tradeoffs between the simulation types and its performance.</p>	<p>WG1</p>
<p><b>TD(22)01003</b></p>	<p>Luoyan Zhu, Yinsheng Liu, Danping H, Ke Guan, Bo Ai, Zhangdui Zhong, Xi Liao</p>	<p>An efficient target detection algorithm via Karhunen-Loève Transform for FMCW radar applications</p>	<p>This paper investigates an advanced effective signal processing technique to suppress noise, addressing a modern high-performance detection in the field of radar sensing. To achieve a higher accuracy, the frequency modulated continuous wave (FMCW) radar is taken as a case study to derive the algorithm based on Karhunen - Loeve transform (KLT) before detection. KLT defines a linear projection of the signal statistics on the eigenfunctions domain, which makes the input-dependent signals orthogonal to each other under new eigen-basis and eigenvalues. The highest energy along slow time dimension of each range bin are concentrated in the transformed domain corresponding to the largest N eigenvalues. The performance of the algorithm is evaluated by different eigenvalue selection strategies. Numerical experiments are employed to obtain the relationship between signal-to-noise ratio (SNR) and different eigenvalue selection strategies. Pertaining to the detection performance, constant false alarm ratio (CFAR) detector is applied to demonstrate the detection ability as a result of the processor by use of probability of detection</p>	<p>WG2</p>

<p><b>TD(22)01004</b></p>	<p>Dong Yan, Ke Guan, Danping He, Hao Qiu, Junhyeong Kim, Heesang Chung, Bo Ai, and Zhangdui Zhong</p>	<p>Channel Characterization for Millimeter-Wave Vehicular Communications with the Consideration of Beam Switching Technology</p>	<p>Vehicle-to-Vehicle (V2V) communication with high data rates and low latency is crucial for realizing autonomous driving. In particular, the shadowing effect of large vehicles (such as delivery vans) affects communication quality between vehicles seriously. Therefore, vehicles need to be equipped with various sensors to perceive the complex environment. Recently, millimeter-wave (mmWave) technology is utilized to meet this high data rate requirement. This paper uses a measurement-validated ray-tracing (RT) simulator to explore the mmWave V2V link channel characteristics in a typical urban scenario. First, the vehicular communication measurement campaigns are conducted in the target scenario. The measurement results can be used to calibrate the RT simulator. Then, through extensive simulations, the significance of beam switching technology is verified. Moreover, the impacts of different distances between communication vehicles and different traffic flows on the V2V link are discussed as well. Finally, channel parameters such as the Rician K-factor are extracted. The conclusions obtained can help researchers understand the significance of beam switching and the influence of the traffic flow on V2V communication, which can contribute to the link-level design of vehicular communication.</p>	<p>WG1</p>
<p><b>TD(22)01005</b></p>	<p>Rooderson Andrade, Rui R. Paulo, Salomão Francisco, Emanuel Bordalo Teixeira and Fernando J. Velez</p>	<p>Characterization of Indoor Small Cells Propagation</p>	<p>The characterization of the wireless medium in indoor small cell networks is essential to obtain appropriate modeling of the propagation environment. Software defined radios like Universal Software Radio Peripherals (USRPs) and simple dipole antennas can emulate LTE-Advanced networks and may be used as base stations (BSs) and user equipments (UEs) in field tests. In this work, we verify WINNER II propagation modeling for the indoor femtocell environment by considering different classrooms of 7.32 x 7.32 square meters near a common corridor in our Department while measuring the power received in UEs (radiated by the small eNodeB of the own cell, in room 1, and from the interferer cells, in rooms 2 or 3). These measurements consisted of tens of repetitions in each of the 49 points of the room and have been carried out either by using the Software Radio Systems LTE that emulates the LTE-Advanced network eNodeBs and UEs themselves, or by measuring the received power in the UES with a Rohde &amp; Schwarz FSH8 spectrum analyzer. Analytical results and measurements are for room 1 where, by varying the UEs positions, the highest values of the received power have occurred close to the central BS. Nevertheless, it was verified that the received power does not decrease suddenly because of the effect of the radiation pattern of the BS and UE antennas for large angles of apertures as well as due to the non-omnidirectional horizontal antenna pattern. In addition, it was demonstrated that there is an effect of "wall loss" proven by the fact that path loss increases between room 2 and room 1 (or between room 3 and 2). If we consider an attenuation for each wall of circa 7-9 dB the behavior of the WINNER II model at 2.625 GHz for the interference coming across different walls is verified.</p>	<p>WG1,WG3</p>
<p><b>TD(22)01007</b></p>	<p>Diego Dupleich, Sebastian Semper, Mohanad Dawood Al-Dabbagh, Alexander Ebert, Thomas Kleine-Ostmann, and Reiner Thomä</p>	<p>Verification of THz Channel Sounder and Delay Estimation with Over-The-Air Multipath Artifact</p>	<p>In the present paper we introduce the empirical results of measurements with an over-the-air based propagation artifact for verification and validation of sub-THz and THz channel sounders and parameter estimation algorithms. This experiment produces a fixed number of multipath components with traceable propagation properties in the different domains that can be used to test resolution and performance. Because of the inherent characteristics of the measurement hardware, we have introduced an adaptation on a parametric high resolution estimation algorithm to account the imperfections of the channel sounder. The results have shown to account for a relative good performance of the sounder and the tested parametric and non-parametric estimation algorithms.</p>	<p>WG1</p>

<p><b>TD(22)01008</b></p>	<p>Ladislav Polak, Stanislav Rozum, Martin Slanina, Tomas Bravenec, Tomas Fryza, Aggelos Pikrakis</p>	<p>Received Signal Strength Fingerprinting-Based Indoor Location Estimation Employing Machine Learning</p>	<p>The fingerprinting technique is a popular approach to reveal location of persons, instruments or devices in an indoor environment. Typically based on signal strength measurement, a power level map is created first in the learning phase to align with measured values in the inference. Second, the location is determined by taking the point for which the recorded received power level is closest to the power level actually measured. The biggest limit of this technique is the reliability of power measurements, which may lack accuracy in many wireless systems. To this end, this work extends the power level measurement by using multiple anchors and multiple radio channels and, consequently, considers different approaches to aligning the actual measurements with the recorded values. The dataset is available online. This article focuses on the very popular radio technology Bluetooth Low Energy to explore the possible improvement of the system accuracy through different machine learning approaches. It shows how the accuracy-complexity trade-off influences the possible candidate algorithms on an example of three-channel Bluetooth received signal strength based fingerprinting in a one dimensional environment with four static anchors and in a two dimensional environment with the same set of anchors. We provide a literature survey to identify the machine learning algorithms applied in the literature to show that the studies available can not be compared directly. Then, we implement and analyze the performance of four most popular supervised learning techniques, namely k Nearest Neighbors, Support Vector Machines, Random Forest, and Artificial Neural Network. In our scenario, the most promising machine learning technique being the Random Forest with classification accuracy over 99%</p>	<p>WG2,HA1,H A3</p>
<p><b>TD(22)01009</b></p>	<p>YI CHU, HAMED AHMADI, DAVID GRACE, DAVID BURNS</p>	<p>Deep Learning Assisted Fixed Wireless Access Network Coverage Planning</p>	<p>Wireless network coverage planning is crucial for mobile network operators and fixed wireless network providers to estimate the performance of their networks and plan future antenna mast deployments. To generate accurate coverage maps for target buildings, traditional wireless coverage planning tools either require manual input of Customer-Premises Equipment (CPE) antenna locations or need to compute received signal strength from nearby Access Points (APs) to all geolocations in the area of interest which consumes computational resource unnecessarily. In this paper we propose a Deep Learning (DL) based universal enhancement to wireless coverage planning tools which automatically extracts potential CPE antenna locations from aerial images of the target buildings. We evaluate the performance of the pixel level object detection provided by Mask Region-based Convolutional Neural Network (Mask R-CNN) trained on an image dataset with suburban and rural residential properties across North Yorkshire, UK. We also demonstrate a complete task flow to generate informative building coverage reports while combining the DL based building detection with the WISDM industrial wireless coverage planning system</p>	<p>WG3,VT4</p>

<p><b>TD(22)01010</b></p>	<p>Mohammad Furqan Ali and Dushantha Nalin K. Jayakody</p>	<p>Ocean-Ocean UVLC Communication System</p>	<p>Recently, Underwater Visible Light Communication (UVLC) has become a potential wireless carrier candidate in the acrimonious mingled ocean straits. The North and Baltic ocean's combined strait is a harsh and strongly turbid aqueous zone that contributes to signal to fade at a large scale. Due to this, we are proposing a UVLC system within the Baltic-North ocean mingled water under strong turbulence channel conditions. This study uses the Gamma-Gamma distribution to model UVLC link under the OOK modulation scheme. Subsequently, the reason of unavailability of the latest North-Baltic oceanographic data within this bayou, we investigate the BER and outage probability performance of the proposed system within the mingled strait for the whole year during the 1996s. It is noteworthy that the analytical work has been considered of the following distinct physio-chemical properties and the data provided for each ocean. Additionally, the simulation results are verified the analytical work of the proposed system model.</p>	<p>WG1,WG2</p>
<p><b>TD(22)01011</b></p>	<p>Muhammed Sohaib J. Solaija, Hanadi Salman, Abuu B. Kihero, Mehmet İzzet Sağlam, Hüseyin Arslan</p>	<p>Generalized Coordinated Multipoint Framework for 5G and Beyond</p>	<p>The characteristic feature of 5G and beyond networks is the diversity of services, which is required to support different user needs. However, the requirements for these services are often competing in nature, which impresses the necessity of a coordinated and flexible network architecture. Although coordinated multipoint (CoMP) systems were primarily proposed to improve the cell edge performance in 4G, their collaborative nature can be leveraged to support the diverse requirements and enabling technologies of 5G and beyond networks. To this end, we propose the generalization of CoMP to a proactive and efficient resource management framework capable of supporting different user requirements such as reliability, latency, throughput, and security while considering network constraints. This article elaborates on the multiple aspects, inputs, and outputs of the generalized CoMP (GCoMP) framework. Apart from user requirements, the GCoMP decision mechanism also considers the CoMP scenario and network architecture to decide upon outputs such as CoMP scheme or appropriate coordinating clusters. To enable easier understanding of the concept, a case study illustrating the effect of different combinations of GCoMP framework's outputs on varying user requirements is presented.</p>	<p>WG1,WG2</p>
<p><b>TD(22)01012</b></p>	<p>Saied El-Faitori and Sana Salous</p>	<p>Reflection and penetration loss measurements of buildings material</p>	<p>This technical document presents, the results of wideband measurements of several common building material that were conducted at 28, and 39 GHz in the anechoic chamber at Durham University in co-polar and cross-polar alignments to investigate the reflection and penetration loss at different incident angles using a wideband channel sounder developed at Durham University. The results show that, the lowest value of penetration loss was when both antennas of the transmitter and receiver are perpendicular on the material, and it was more than 30 dB (co-polar) and 20 dB (cross-polar) at angles larger than 10 degrees on either side from the zero angle for most of the tested materials, where narrow-beam lens antennas were used (4.5 degrees).</p>	<p>WG1</p>
<p><b>TD(22)01013</b></p>	<p>Olga Błaszkiwicz, Robert Burczyk, Agnieszka Czapiewska, Małgorzata Gajewska, Sławomir Gajewski, Jarosław Sadowski</p>	<p>Estimation of transmission quality in cellular systems based on indicators measured by the radio module</p>	<p>The article presents a measurement stand for testing transmission quality in cellular systems such as LTE, NB-IoT, UMTS and GSM. The results of BLER and throughput measurements for various propagation conditions as well as results of quality indicators appropriate for mentioned technologies measured by commercial radio module are presented. Those measurements were utilized to analyze the possibility of estimating the transmission quality in LTE, NB-IoT, UMTS and GSM only based on the results of measurements carried out by a commercial radio module.</p>	<p>WG3</p>

<p><b>TD(22)01014</b></p>	<p>De Beelde Brecht, Tanghe Emmeric, Plets David, and Joseph Wout</p>	<p>Vegetation Loss at D-Band Frequencies</p>	<p>With the potential of fixed wireless access networks as an alternative to optical fiber, it is necessary to determine vegetation loss at mmWave and sub-THz frequencies for network design, and to perform accurate link budget calculations.</p> <p>In this paper, we present vegetation loss measurement results at D-band frequencies for different vegetation types.</p> <p>The average loss per meter vegetation width is derived by subtracting free space path loss from measured path loss, and averaging over different vegetation widths.</p> <p>The resulting vegetation loss ranges from 0.1 dB/m for light foliage, up to 10 dB/m for dense vegetation.</p>	<p>WG1</p>
<p><b>TD(22)01015</b></p>	<p>Charles Wiame; Luc Vandendorpe, Claude Oestges</p>	<p>Joint rate and power density analysis in user-centric cell-free massive MIMO networks</p>	<p>The objective of this treatise is to analyze the statistics of the rate and of the incident power density (IPD) in user-centric cell-free networks (UCCFNs). In addition to the coverage probability, this study proposes a number of new performance metrics derived using stochastic geometry (SG). On the one hand, the mean, the variance and the marginal distribution of the IPD are derived. On the other hand, lower bounds on the joint distributions of the rate and IPD are provided for two scenarios: when it is relevant to obtain IPD values above a threshold (for energy harvesting purposes), and when these values should instead remain below the threshold (for public health reasons). In addition to deriving these metrics, this work incorporates features related to UCCFNs which are new in SG models. First, the power allocation is non-uniformly performed. This allocation is based on the collective channel gains of the cluster of radio heads serving the user equipment (UE), and on an equity criterion between all UEs. Second, the analytical model takes into account potential overlaps between the cooperative clusters. Last, the mathematical expressions also capture the cluster size distribution, as well as the UE statistics. The results derived from the SG framework are compared to Monte Carlo simulations.</p>	<p>WG1,WG2, WG3</p>
<p><b>TD(22)01016</b></p>	<p>Simona Valbonesi and Paolo Grazioso</p>	<p>Analysis of Covid-19 restrictions impact on EMF levels in residential areas</p>	<p>The sanitary emergency that ensued after the outbreak of Covid-19 pandemic in Italy led to massive closures of non-essential manufacturing and commercial activities in March and April, 2020 with an outstanding reduction in citizens mobility; analogous, though less severe, restrictions were put into effect also in the same period of the year 2021. The need to perform nearly every activity from home brought to a sharp increment in the use of digital communication tools, such as platforms for web conferences and distance learning. Many research groups carried out analyses aimed at verifying the impact of the closure of manufacturing activities and of reduced citizens mobility on the electrical field levels detected on air.</p> <p>The work presented here is aimed at verifying how the closure periods, characterised by a massive use of online services and tools for work, gaming, distance learning, social relationships, impacted on the measured electrical field levels in residential areas. This analysis is carried out by comparing measurements taken in the closure periods with the levels detected when people movement and work activities didn't suffer any limitation. We carried out two different studies, the first one comparing the overall cumulative distribution functions of measured field levels in years 2019, 2020, and 2021, and the second one consisting in a more specific analysis focused on the total closure periods and on the areas where the most severe restrictions were enforced (dubbed "red zones").</p>	<p>WG1,VT4</p>

<p><b>TD(22)01017</b></p>	<p>Carlos S. Alvarez-Merino, Hao Qiang Luo-Chen, Joel Llanes Michel, Emil J. Khatib, Raquel Barco</p>	<p>WiFi and UWB characterization for localisation in construction sites</p>	<p>High-precision localisation is becoming a necessity in the future location-based services that will come up in this decade. However, the construction sector remains particularly obsolete in the technology services. In this work we study the accuracy and penetration capacity of two technologies that are expected to deal with the future high-precision localisation services such as Ultra Wide Band (UWB) and WiFi Fine Time Measurement (FTM). Moreover, the fusion of technologies is presented at the Weighted Least-Square algorithm to see the performance of fusing different ranging technologies in construction sites. The Maximum Likelihood Estimator (MLE) evaluates the ranging information quality and introduces a weighting matrix for the fusion algorithm. An experimental setup is used to analyse the presented technologies and the fusion algorithm</p>	<p>WG2</p>
<p><b>TD(22)01018</b></p>	<p>D.P. Gaillot, P. Laly, E.P. Simon, N. Dahmouni, G. Delbarre, M. Liénard, J. Molins-Benlliure, M. Cabedo-Fabrés, E. Antonino-Daviu, M. Ferrando-Bataller, J-M. Garcia Molina-Pardo</p>	<p>Experimental characterization of propagation in vehicular scenarios using the real-time Massive MIMO channel sounder MaMIMOSA</p>	<p>This TD presents the results of a V2I channel sounding campaign with the real-time massive MIMO radio channel sounder named MaMIMOSA. This equipment was jointly developed by the University of Lille (FR) and the University of Ghent (BE) for 5G V2X applications. The system is equipped with a massive 64 antenna array for Tx, while up to 16 individual antennas can be deployed for Rx. MaMIMOSA's hardware and software capabilities allow the probing parameters to be freely adapted to the scenario under investigation, demonstrating its versatility and flexibility. Radio channels were measured at 5.89 GHz with a bandwidth of 80 MHz on the University of Lille campus, with an average speed of 30 km/h. A Doppler analysis illustrates the measurement results.</p>	<p>WG1,VT2</p>
<p><b>TD(22)01019</b></p>	<p>R.F. Rudd</p>	<p>Statistical modelling of short-range interference paths</p>	<p>There is a frequent requirement in spectrum sharing studies (e.g. in relation to frequency assignment for 5G systems) to assess the basic transmission loss on short (typically less than 1 km) outdoor paths in a variety of environments. In most sharing studies, it is required that the results of the modelling are generic (i.e. no site specific inputs to the model are necessary) and are presented in statistical terms (typically path loss not exceeded for a given probability). A useful model must also be suitable for computer implementation, often within a Monte Carlo framework. Many existing models are deterministic in the sense that they apply to specific geometries or environments which makes it impossible to apply such models in the general case where statistics covering all path geometries are required. This paper proposes a new, unambiguous, method for the prediction of the statistics of basic transmission loss in such cases.</p>	<p>WG1</p>
<p><b>TD(22)01020</b></p>	<p>Manuel M. Ferreira, Filipe D. Cardoso, Stawomir J. Ambroziak, Kenan Turbic, Luís M. Correia</p>	<p>User Mobility's Influence on System Loss in Off-body BAN Scenarios</p>	<p>In this paper, a measurement campaign for off-body communication in an indoor environment was investigated for a set of on-body antennas. The channel impulse response was measured with the user approaching and departing from an off-body antenna using two user dynamics: the user standing at fixed positions and the user walking. The processing of the measurement data was used to evaluate system loss statistics. Different antenna configurations were classified in terms of mobility and visibility depending on the on-body antenna placements. A dependence on distance was found for the antennas with the lowest mobility (chest and head), while no significant dependence was found for the antennas with highest mobility (arm and leg). For the standard deviation of the system loss, higher values were found in the walking scenarios (above 2.6 dB) than in the standing scenarios (below 0.6 dB). The values of the standard deviation also show a clear dependence on the mobility of the scenario: 1.6 dB for walking scenarios and 0.5 dB for standing scenarios.</p>	<p>WG1</p>

<p><b>TD(22)01021</b></p>	<p>Stefan Zelenbaba, Benjamin Rainer, Markus Hofer, Thomas Zemen</p>	<p>Wireless Digital Twin for Assessing the Reliability of Vehicular Links</p>	<p>Digital twins are becoming a key technology in evaluating hardware and system performance in wireless communications. The explosion of new use cases in time-sensitive, safety critical scenarios and the stringent requirements for new communication standards are creating a demand for repeatable and cost-effective verification methodologies. In this paper we use a digital twin for reliable wireless communications to obtain time-variant packet error rates which allow us to analyze the benefit of using a relay link for vehicular communications in a safety-critical overtaking scenario. The digital twin utilizes a real-time geometry-based stochastic channel model to simulate the frequency responses, and a hardware-in-the-loop setup to obtain packet error rates. We then use the obtained error rates to estimate the 90% tail probability of the link level latency and show that using a relay link to complement an obstructed link decreases the average latency from 16.4ms to 7.9ms and reduces the average error rate from <math>1.2 \times 10^{-2}</math> to <math>1.4 \times 10^{-6}</math>.</p>	<p>WG1</p>
<p><b>TD(22)01022</b></p>	<p>Simone Del Prete, Franco Fuschini, Marina Barbiroli, Marco Zoli, André Noll Barreto</p>	<p>A Study on Physical Layer Security Through Ray Tracing Simulations</p>	<p>Due to its broadcast nature, the wireless channel cannot be really private, i.e. restricted to the intended users only. Rather, it can always be available also to some unauthorized outsider, and, thus, security in wireless communications is crucial. Protection of communications from possible eavesdroppers is usually achieved through standard cryptography schemes, which nonetheless may not always represent the best solution due to their complexity and power consumption. Physical Layer Security, in particular Secret Key Generation, leverages the fading/dispersive properties of the wireless channel to distill encryption keys with limited computational effort. In this study, ray tracing propagation modeling is proposed as a tool to investigate the performance of the physical layer approach to communications security, thanks to its capabilities to model the channel statistics and the more flexibility compared to a measurement campaign.</p>	<p>WG1</p>
<p><b>TD(22)01023</b></p>	<p>Adrian Agustin, Adriano Pastore, Monica Navarro</p>	<p>Random Access Networks with Spatial Reuse</p>	<p>Providing ultra-reliable, low-latency and massive access is a technical challenge that demands a redesign of current Media Access Control (MAC) layer in wireless cellular networks. This work focuses on studying the conventional slotted ALOHA protocol and ways to improve its efficiency. In particular, we concentrate on the case where multiple neighboring cells use the same resources, so that the system operates under inter-cell interference. While in conventional slotted ALOHA, terminals transmit with a fixed probability, in our scenario we propose instead to exploit channel-state information at terminals so as to define (minimum) signal-to-noise and (maximum) interference conditions, under which a terminal is allowed to transmit. We conduct a theoretical analysis for a simple scenario with Rayleigh fading where the system throughput can scale linearly with the number of coexisting cells and in logarithmic scale with the number of terminals per cell</p>	<p>WG2,VT4</p>
<p><b>TD(22)01024</b></p>	<p>Krzysztof CICHON, Łukasz KADAJ, Damian Piotrowski</p>	<p>Sub-6 GHz Electromagnetic Field Prediction for Urban Scenario</p>	<p>In the work the prediction of EMF voltage (Electromagnetic Field Voltage) in urban scenario is considered. To this aim, the narrowband EMF voltage measurements were conducted in five various urban locations. Then at 100 measurement points EMF values for 35 subbands were acquired. With such measurements a database is formed. Finally additional attributes were defined, such as distance, azimuth or elevation angle, cellular network operator. After data preparation, the prediction of EMF value was performed.</p>	<p>WG1,VT1,HA1</p>

<p><b>TD(22)01026</b></p>	<p>Kun Chen Hu, Ana Garcia Armada</p>	<p>On the feasibility of a structured configuration search for Reconfigurable Intelligent Surface-assisted communications</p>	<p>Reconfigurable Intelligent Surfaces (RIS) are being lately envisioned as an energy efficient solution capable of enhancing the signal coverage in cases where obstacles block the direct communication from Base Stations (BSs), especially at high frequency bands due to attenuation loss increase. In the current literature, wireless communications aided by necessitate the estimation of accurate Channel State Information (CSI) and the optimization of the RIS phase configuration. However, this requirement results in an increased overhead, complexity and delay. Aiming at a low-complexity and low-overhead solution for CSI estimation and RIS optimization, we get inspiration from the procedure of beam-searching that is currently performed in 5G NR. In this paper, we explore the feasibility of a structured search over a reduced number of pre-defined phase configurations of the RIS. We show by numerical evaluation the performance of the prosed scheme with respect to other solutions available in the literature.</p>	<p>WG2</p>
<p><b>TD(22)01028</b></p>	<p>Allan Wainaina Mbugua, Yun Chen, Wei Fan</p>	<p>Radio Channel Emulation for Virtual Drive Testing with Site-Specific Channels</p>	<p>Virtual drive testing (VDT) with measured or ray tracing (RT) simulated channels requires the simplification of the channel to match the hardware specification of radio channel emulators. That is, reduction of the number of multipath components (MPCs) and adjustment of the arbitrary delays of the MPCs to the sampling grid of the radio channel emulator. In this paper, a fractional delay (FD) filter approximated by a general least square (GLS) finite impulse response (FIR) filter is used for band-limited interpolation to align the delay of the MPCs to the sampling grid of the radio channel emulator. A dominant power selection strategy is then employed to reduce the taps to match a given hardware specification. The GLS FIR method is shown to have superior performance in preservation of the channel frequency response (CFR) compared to rounding delays to the nearest integer multiple of the sampling time.</p>	<p>WG1</p>
<p><b>TD(22)01029</b></p>	<p>Konstantinos Katzis, Lazar Berbakov, Gordana Gardašević, Olivera Šveljo, and Dragana Bajić</p>	<p>Breaking Barriers in Emerging Biomedical Applications</p>	<p>The recent global pandemic COVID-19 revealed that the existing health system in modern society can hardly cope with the increasing number of patients. Part of the burden can be mitigated by installing smart health infrastructure in the current system to allow patients remote monitoring and personalized treatment. Technological advances in communications and sensor devices have enabled the development of new, portable, and energy-efficient biomedical sensors, as well as innovative healthcare applications. However, such applications require reliable, resilient, and secure networks. This paper aims to identify communication requirements for the mass application of such smart health sensors by providing an overview of basic Internet of Things (IoT) technologies. Moreover, it emphasizes the importance of information theory in understanding the boundaries and barriers in this emerging field. With this motivation, the paper points out how data compression and entropy used in security algorithms can pave the way for the mass use of such IoT health devices. Future medical practices and paradigms are also discussed.</p>	<p>VT1</p>

<p><b>TD(22)01030</b></p>	<p>Zohreh Ebadi, Heidi Steendam, Francois Horlin and Francois Quitin</p>	<p>An over-the-air CFO-assisted synchronization algorithm for TDOA-based localization and velocity estimation</p>	<p>This paper investigates the problem of time difference of arrival (TDOA)-based localization in a wireless network with unsynchronized anchor nodes. We propose a new synchronization method called the carrier frequency offset (CFO)-assisted synchronization method. We use the observation that the clock offset that affects TDOA estimation is also observable in the CFO of the messages received by the anchors since the same local oscillator is used to generate the clock and carrier frequencies. By combining TOA and CFO information, our algorithm allows the anchor nodes to implicitly synchronize their clocks when performing TDOA estimation. The method is implemented and validated experimentally on an ultra-wideband (UWB) localization system. This CFO-assisted TDOA estimation algorithm can also be used to estimate the velocity of a moving target node, by adopting some small changes to include the doppler shift in the estimated CFO. Therefore, we propose a velocity estimation method called the three-step method. The proposed three-step method first synchronizes the anchors using CFO-assisted synchronization. Then, it estimates the location of the target node using the estimated TDOAs. Finally, it estimates the velocity of the target node as well as the master node to successfully synchronize the anchors and find the location and velocity of a moving target.</p>	<p>WG2</p>
<p><b>TD(22)01031</b></p>	<p>Chiara Buratti, Giampaolo Cuzzo, Roberto Verdone</p>	<p>OCDMA: A MAC Protocol for Industrial Intra-Machine TeraHertz Networks</p>	<p>We consider an industrial machine, where wireless sensor nodes (denoted as tags or nodes) support control applications. This scenario poses very challenging communication requirements: hundreds of tags per cubic meter can provide an overall offered throughput of tens of Gbit/s; at the same time, control applications require a latency of less than 0.1 ms. To fulfill them, we consider using the TeraHertz (THz) frequency band, and we propose an Orthogonal Chirp Division Multiple Access scheme. With THz communications, even at short distances, propagation delays can be of the same order of magnitude as the packet transmission time. This requires proper consideration of such delays in the protocol design and performance evaluation. This paper mathematically derives network throughput and latency of the proposed protocol, comparing it to benchmarks; two scenarios are considered, where tags are in fixed positions or move.</p>	<p>WG3,VT3</p>
<p><b>TD(22)01032</b></p>	<p>Silvia Mignardi, Danila Ferretti, Riccardo Marini, Francesca Conserva, Stefania Bartoletti, Roberto Verdone, Chiara Buratti</p>	<p>Optimizing Beam Selection and Resource Allocation in UAV-Aided Vehicular Networks</p>	<p>Future mobile radio networks require a degree of flexibility that technologies like Unmanned Aerial Vehicles (UAVs) carrying Base Stations (BSs) can provide. It is expected that the lower space above cities will be populated by many different types of UAVs, such as taxis and smaller drones used for logistics or patrolling, which can be equipped with BS to serve users on the ground while flying for a different mission. This paper investigates an urban scenario with terrestrial macro BSs (MBSs) deployed, where multiple UAVs fly on a predefined path. Vehicles in the area are moving while relying on network services, and MBSs alone might not serve them adequately. We propose a network model where UAVs can be activated to work as BSs if needed and help the MBSs to fulfill the vehicular demand. To this purpose, a radio resource management optimization algorithm is designed to jointly consider: i) interference between MBSs and UAVs; ii) a limited backhaul capacity; iii) beamforming at UAVs, where a limited number of beams can be activated at the same time. Numerical results show the notable improvement of the network performance when the flying BSs are activated and report the impact of beamforming and backhaul capacity.</p>	<p>WG3</p>

<p><b>TD(22)01033</b></p>	<p>Concepcion Garcia-Pardo, Alejandro Fornes-Leal, Matteo Frasson, Vicente Pons-Beltrán, Narcis Cardona</p>	<p>Effect of Breathing on UWB Propagation Characteristics for Ingestible and Implantable Devices</p>	<p>Wireless in-body devices are those in which a medical sensor is introduced –implanted or ingested– inside the human body and communicates with a remote node. Some in-body applications demand high data rates are necessary, so Ultra-Wideband (UWB) spectrum has been proposed as a good candidate because of its large bandwidth available. Besides, breathing can lead to internal movement of the torso and consequently, of devices installed in this area. Thus, the radio channel performance can be affected by such movement leading to a malfunction of the radio interface of the medical device. This work aims at analyzing the effect of breathing on the propagation channel by means of in vivo measurements in living animal models. Continuous wave (CW) measurements have been carried out for five different frequencies in the lower part of the UWB band, and the effects of breathing on the relative received power (module and phase), are analyzed and discussed.</p>	<p>WG1,VT1</p>
<p><b>TD(22)01034</b></p>	<p>Sofia Patricio, Luis M. Correia, Monica Gomes</p>	<p>Influence of Active Antennas on EMF Restrictions in 5G Base Stations Deployment</p>	<p>In this paper, a model to analyze the influence of active antennas on electromagnetic field restrictions in 5G base stations deployment is presented. The model allows for the computation of electromagnetic exposure in the vicinity of base station antennas with active 5G in order to compute the respective exclusion zone that guarantees the safety of the population, taking realistic maximum power levels. Representative scenarios with co-location of antennas are analysed. For an urban scenario, the exclusion zone is reduced from 25.2 m to 16.4 m. Results are given for a large antenna simulated using CST Studio Suite.</p>	<p>VT1</p>
<p><b>TD(22)01035</b></p>	<p>Riccardo Marini, Leonardo Spampinato, Silvia Mignardi, Roberto Verdone, Chiara Buratti</p>	<p>Reinforcement Learning-based Trajectory Planning for UAV-aided Vehicular Communications</p>	<p>It is widely expected that future 6G networks will rely on autonomous Unmanned Aerial Vehicles (UAVs) acting as flying Base Stations (BSs) to provide a wide range of services that current networks are not able to handle. One of the major trends deals with Vehicle-To-Everything (V2X) communications, where vehicles must be connected to the network in order to offer different applications, such as vehicle platooning, advanced driving, cooperative awareness and extended sensing. In this context, vehicles could deeply count on flying BS, in order to increase the throughput or reduce the experienced latency, thus satisfying the constraints such services require. As a consequence, path planning must be carefully designed so that UAVs can follow and keep stable links with moving vehicles. In this sense, Reinforcement Learning (RL) techniques are becoming the main enabler for solving such problem, since, besides the inability to solve it with classical methods, they offer the possibility to learn how to act in an environment with little prior information, given that full knowledge of the scenario is usually not available. In this paper, we present a RL-based approach to solve the path planning problem in a 6G vehicular scenario, where, differently from typical Internet of Things (IoT) applications, UAVs are required to follow cars rather than providing service to different cluster of users distributed in an area. Different RL architectures are compared, in order to analyze their performance and select the best strategy maximising the sum throughput. The model account for beamforming techniques used at the UAVs.</p>	<p>WG3</p>

<p><b>TD(22)01036</b></p>	<p>Mate Boban, Ziming Yu, Jian Li, Tommaso Zugno</p>	<p>THz Channel Measurements and Modeling in Indoor Scenarios: Summary of Use Cases and Initial Pathloss Results</p>	<p>Communication systems in the THz range (between 0.1 and 10 THz) are expected to be an integral part of future 6G networks. However, due to their specific properties (large pathloss, atmospheric attenuation on the one hand, and the large bandwidths available and inherently limited interference on the other hand), they will be suitable for a specific subset of the envisioned 6G use cases. To that end, we provide an overview of relevant use cases for THz communication, with a focus on the specific aspects relevant for channel modeling scenarios. These relate not only to specific environmental setting (e.g., office, classroom, industrial), but also to mode of operation (e.g., communication only, static/mobile nodes, integrated communication and sensing, etc.). Based on the existing literature, we identify relevant indoor scenarios for THz channel measurements. Finally, for three relevant scenarios identified (meeting room, open office area, and office hallway), we perform channel measurements at 140 GHz and 220 GHz and show initial pathloss results.</p>	<p>WG1</p>
<p><b>TD(22)01037</b></p>	<p>Mengting Li, Fengchun Zhang, Yilin Ji and Wei Fan</p>	<p>Virtual Antenna Array with Directional Antennas for Millimeter-Wave Channel Characterization</p>	<p>Millimeter-wave (mm-Wave) band channel modeling and characterization are essential for system design and analysis in the fifth generation (5G) and future communication systems. Reliable channel sounding in the deployment scenarios is required for accurate and realistic channel modeling and characterization. In the state-of-the-art, directional scanning sounding (DSS) and virtual antenna array (VAA) sounding are two popular methods due to their simplicity and cost-effectiveness. The DSS and the VAA methods are typically based on mechanically rotatable directional antennas and mechanically movable omnidirectional antennas, respectively. However, the spatial resolution is limited by the directivity and high side lobes of the directional antennas used in the DSS method. The conventional VAA method also has limitations in terms of the low signal-to-noise ratio (SNR) and the unavailability of suitable omnidirectional antennas that support mmWave (above 60 GHz) band measurements and wideband horizontal polarization measurements. In this paper, a novel directional antenna based VAA framework in combination with the associated beamforming algorithm is proposed. Compared to the state-of-the-art methods, the proposed framework can achieve high angular resolution and high SNR for mm-Wave channel measurements without introducing additional cost and measurement time. Furthermore, it is a generic solution which can be applicable for arbitrary frequency bands and polarizations, unlike the conventional VAA method. To validate the effectiveness and robustness of the proposed method, experiments in two scenarios (a clean anechoic chamber and a realistic indoor meeting room) were conducted over 28 – 30 GHz with two types of directional antennas (i.e., a horn antenna and a corrugated antenna). Besides, the advantages of the proposed method are highlighted with a comparison to the conventional VAA and DSS methods.</p>	<p>WG1</p>

<p><b>TD(22)01038</b></p>	<p>Yejian Lyu, Allan Wainaina Mbugua, Kim Olesen, Pekka Kyösti, and Wei Fan</p>	<p>Design and Validation of the Phase-Compensated Long-Range Sub-THz VNA-based Channel Sounder</p>	<p>This paper presents the first vector network analyzer (VNA)-based sub-Terahertz (sub-THz) phase-compensated channel sounder at 220-330 GHz using radio-over-fiber (RoF) techniques that could enable long-range phase-coherent measurements. The optical cable solution enables long-range channel measurements at sub-THz bands since it can effectively minimize cable loss. This paper also proposes a novel phase compensation scheme to stabilize the phase variations introduced by the optical fiber of the channel sounder to enable its application in multichannel/antenna measurements. This proposed channel sounder is validated in back-to-back measurements under two optical cable conditions, i.e., with the presence of thermal changes and mechanical stress. The phase variation introduced by the cable effects in the system is shown to be over 400 degree in 220-330 GHz, compared to 15 degree at 220-288 GHz and 37 degree in 288-330 GHz after compensation, respectively, demonstrating the robustness and effectiveness of the developed channel sounder in practice. The developed system, which has a dynamic range of 106.7 dB, can support measurement range up to 300m (limited by the optical cable length in our system and subject to over-the-air signal transmission loss in the practical environment).</p>	<p>WG1</p>
<p><b>TD(22)01039</b></p>	<p>Ahmed Boujnoui, Abdellah Zaaloul, Luis Orozco-Barbosa and Abdelkrim Haqiq</p>	<p>Enhanced Pricing Strategy for Slotted ALOHA with ZigZag Decoding: A Stochastic Game Approach</p>	<p>In this paper, we propose a novel pricing mechanism to enhance the performance of the Slotted ALOHA mechanism combined with ZigZag Decoding (SA-ZD). We model the system using a stochastic game approach where the game state is given as a Markov process. We assume a cooperative game framework where users seek to optimize the same utility function. In our previous pricing mechanism, we associated a cost <math>C \in [0, 1]</math> for every transmission and retransmission attempt. Thus, if the transmission succeeds, the user receives a reward equal to <math>1 - C</math>. Otherwise, in the case of collision, he pays a penalty equal to <math>C</math>. Following this approach, users prefer not to take the risk of paying the penalty cost, which means they choose to wait rather than transmit, especially in heavy traffic conditions. Even though it seems optimal not to transmit in such conditions, our results show that this behavior dramatically decreases the system performance. Besides, it leads to an inherent tradeoff between the backlogged and newly arrived traffic. Toward this end, we propose in this paper a novel pricing strategy where we associate a cost not only to transmission attempts but also to the idle event (i.e., when no one is transmitting). Moreover, we address the tradeoff problem by associating different <math>C_b</math> and <math>C_s</math> costs to backlogged and newly arrived packets. Therefore, users pay a cost price denoted by <math>C_s</math> or <math>C_b</math> when a successful transmission goes through the channel. On the other hand, if a collision occurs, they pay a cost price <math>C_c</math>, and when no one is transmitting, they pay the idling cost price <math>C_{idle}</math>. Our results show that the proposed approach achieves the best performance and maintains a fairness level between backlogged and newly arrived packets compared to the old pricing mechanism.</p>	<p>WG3,VT4</p>

<p><b>TD(22)01040</b></p>	<p>Margot Deruyck, German Castellanos, Luc Martens, Wout Joseph</p>	<p>5G Network Exposure: a case study</p>	<p>Recently, human exposure related to 5G technology has been receiving much attention. The question also arises whether it is possible to implement 5G while complying with the current exposure limits. In this study, we investigate a 5G roll-out for the city center of Brussels, Belgium. The study provides answers to four main questions:</p> <ol style="list-style-type: none"> <li>1) Can we provide 5G coverage with 6 V/m limit by upgrading the 4G base stations to 5G?</li> <li>2) If not, would it be possible with a 14.5 V/m limit?</li> <li>3) If not, how many small cells would be required to provide 5G coverage with 6 V/m limit?</li> <li>4) How many small cells would be required if we increase the limit to 14.5 V/m?</li> </ol> <p>To solve these questions, a capacity-based wireless outdoor network planner is used, allowing to optimize the network not only towards coverage but also towards human exposure.</p>	<p>WG3,VT1</p>
<p><b>TD(22)01041</b></p>	<p>Vittorio Todisco, Stefania Bartoletti, Claudia Campolo, Antonella Molinaro, Antoine O. Berthet, Alessandro Bazzi</p>	<p>Performance Analysis of Sidelink 5G-V2X Mode 2 Through an Open-Source Simulator</p>	<p>The Third Generation Partnership Project (3GPP) has recently published a new set of specifications to enable advanced driving applications in fifth generation (5G) vehicle-to-everything (V2X) scenarios, with particular effort dedicated to the sidelink resource allocation in the autonomous mode, named Mode 2. In this paper, we conduct a comprehensive analysis of Mode 2 performance via an open-source system-level simulator, which implements the 5G New Radio (NR) flexible numerology and physical layer aspects together with the newly specified sidelink resource allocation modes for V2X communications and different data traffic patterns. Results collected through extensive simulation campaigns, under a wide variety of vehicle density, data transmission settings and traffic patterns, showcase the effects of the new 5G-V2X features on the sidelink resource allocation performance and provide some insights into possible ways to further improve Mode 2 performance.</p>	<p>VT3</p>
<p><b>TD(22)01042</b></p>	<p>Hamid Taramit, Luis Orozco Barbosa, Abdelkrim Haqiq</p>	<p>Energy Efficiency Framework for Time-limited Contention in the IEEE 802.11ah Standard</p>	<p>The Restricted Access Window (RAW) mechanism introduced in the IEEE 802.11ah standard aims to address the high channel contention of Internet of Things (IoT) networks. It allows the Access Point (AP) to periodically limit channel access to only one group of stations during a short time interval called RAW slot. Such a time limit prevents the channel access contention from reaching the steady state. Henceforth, we present a renewal theory based analytical model for the time-limited contention within the RAW slot. Furthermore, we construct a counting process to track transmissions within the contention interval and derive closed-form analytical results. As IoT networks are typically composed of battery-powered devices, it is compulsory to manage the energy consumption of the network in order to extend the lifetime of devices. Hence, we analyze and evaluate the energy consumption and energy efficiency during the RAW slot period. Extensive simulations using Matlab software validate the analytical model and prove the effectiveness of our proposals.</p>	<p>WG3,VT3,VT4</p>

<p><b>TD(22)01043</b></p>	<p>Sara Cavallero, Chiara Buratti, Alexey Tsarev, Giampaolo Cuzzo, Emil Khayrov, Yuliya Gaidamaka, Roberto Verdone</p>	<p>Applying Carrier Sense Multiple Access to Industrial IoT at Terahertz Frequencies</p>	<p>This paper considers an Industrial Internet of Things (IIoT) scenario, where tags, deployed over an industrial machine, transmit the measured data to a final Gateway (GW) using Terahertz (THz) frequencies. The GW is located in the vicinity to the machine. To overcome the large path loss caused by such high frequencies, the GW is equipped with multiple antennas and sweeps the entire machine to gather data from tags, while tags are equipped with a single antenna due to miniaturisation issues. The feasibility of applying a Carrier Sense Multiple Access protocol to such scenario is addressed in this paper. A mathematical model incorporating physical-layer aspects that also considers both, hidden node problem caused by the asymmetric nature of the link, and propagation delays that cannot be neglected at such frequencies, is presented. The model is validated via comparison with simulations, and the impact of the different simplifying assumptions is shown. Numerical results also illustrate the impact of propagation delays on the performance and provide a comparison with an Aloha-based protocol.</p>	<p>WG1,WG3,V T3</p>
<p><b>TD(22)01044</b></p>	<p>Nicol Sarcone Grande, Marco Skocaj, Roberto Verdone</p>	<p>Using MDT Data for 5G Initial Access Optimisation</p>	<p>This work proposes an algorithm for latency reduction during the initial access phase in 5G networks. Beamforming is a key technology to contrast the propagation losses in the mmWave band, but it introduces non-negligible delays since the base station (gNB) and the UEs (users equipment) have to find a suitable beam pair to communicate, hence the purpose of this algorithm is to implement an intelligent sequence of beams to be used at the gNB. This latter arises from the analysis of the propagation environment and, also, from the information contained in a historical database generated by exploiting MDT (Minimization of Drive Test) data.</p>	<p>WG3</p>
<p><b>TD(22)01045</b></p>	<p>Conor Brennan, Imtiaz Islam, Jason Basquill and Kirk Soodhalter</p>	<p>Method of moments approach to computing EM scattering from random rough surfaces</p>	<p>The problem of computing 2D EM wave scattering from rough surfaces is addressed using an integral equation formulation discretised using the method of moments. Successive Symmetric Over-Relaxation (SSOR) is applied to the governing matrix equations along with eigenvalue deflation which is designed to separately account for the effect of those eigenvectors of the iteration matrix that have eigenvalues greater than 1. Numerical results are presented applying the method to a variety of scattering profiles and examining the resultant convergence performance</p>	<p>WG1</p>
<p><b>TD(22)01046</b></p>	<p>Petr Hron, Jozef Lukac, Jan Sykora</p>	<p>Noncoherent WPNC 2-source MAC channel demodulation methods</p>	<p>Abstract--- This paper addresses the problem of differential demodulation in a 2-source Hierarchical MAC (H-MAC) in the context of a Wireless Physical Layer Network Coded system with Hierarchical Decode and Forward relaying strategy. We consider a parametric H-MAC with known attenuation values but unknown phases. Component phases have generally a strong impact on the resulting superposed constellation and need to be accurately estimated to facilitate a coherent demodulation. The use of a differentially encoded modulation eliminates the need of precise channel phase tracking, which is a nontrivial problem in the WPNC scenario. At the same time it can operate with the same 3dB penalty as in a differential single user case. In this paper we summarize several differential demodulation procedures and additionally introduce new ad hoc methods, which can substantially reduce the computation complexity of the demodulation. We compare the various demodulation algorithms by means of evaluating the hierarchical bit error rate performance for different channel states. Additionally we analyze the robustness of differential demodulation w.r.t. channel phase noise.</p>	<p>WG2</p>

<p><b>TD(22)01047</b></p>	<p>Francesco Linsalata, Silvia Mura, Marouan Mizmizi, Maurizio Magarini, Umberto Spagnolini</p>	<p>Proactive Link Selection in High Frequencies IoV network</p>	<p>Recent advances in Vehicle-to-Everything (V2X) technology and the upcoming 6G sub-THz, will dawn a new era for vehicular services with unprecedented communication capabilities. This will further boost the development of the so-called Internet Of Vehicles (IoV)s network. Vehicles are expected to communicate with each other and infrastructures to deliver a new transportation experience and increased safety in road networks. Communication at high frequencies and high mobility scenarios, however, introduce several challenges that need to be addressed. The radio propagation experiences severe path-loss attenuation and requires beamforming techniques. Additionally, high mobility produces frequent beam-blockage, which impairs communication reliability. Several solutions are being investigated, and the most promising is using relaying techniques. In our work we propose a novel predictive relaying strategy that exploits the cooperation in the IoV network by predicting the dynamic condition of the radio links. The proposed framework allows to compare different relay selection techniques.</p>	<p>WG2,WG3,V T2</p>
<p><b>TD(22)01048</b></p>	<p>Thomas Wilding, Erik Leitingner, Klaus Witrissal</p>	<p>Multipath-based Localization and Tracking considering Off-Body Channel Effects</p>	<p>This paper deals with multipath-based positioning and tracking in off-body channels. An analysis of the effects introduced by the human body and the implications on positioning and tracking is presented based on channel measurements obtained in an indoor scenario. It shows the influence of the radio signal bandwidth on the human body induced field of view (FOV) and the number of multipath components (MPCs) detected and estimated by a deterministic maximum likelihood (ML) algorithm. A multipath-based positioning and tracking algorithm is proposed that associates these estimated MPC parameters with floor plan features and exploits a human body-dependent FOV function. The proposed algorithm is able to provide accurate position estimates even for an off-body radio channel in a multipath-prone environment with the signal bandwidth found to be a limiting factor.</p>	<p>WG1,WG2</p>
<p><b>TD(22)01049</b></p>	<p>Youssef Agram, Jianqiao Cheng and François Quitin</p>	<p>Direction-of-arrival estimation with virtual multi-antenna arrays using dual-antenna receivers: algorithms and controlled experiments.</p>	<p>Localization of radio-frequency (RF) transmitters can be achieved using virtual multi-antenna arrays. The method relies on a mobile, single-antenna receiver that captures successive messages from a transmitter, thereby emulating a multi-antenna array. However, two main challenges emerge from this technique: 1) Successive positions and orientations of antennas have to be determined, meeting spatial Nyquist criterion; 2) the local oscillator (LO) frequency offset between transmitter and receiver adds a drifting phase component to the received signal on each antenna of the array. In this paper, we extend the algorithm to dual-antenna receivers, which allows to recover the azimuth (without ambiguity) and elevation. A linear model of the LO frequency drift is also used, allowing for low-quality, drifting LOs. Controlled experimental results from a software-defined radio testbench are presented. Increased performance is noted when moving from a single antenna to a multi-antenna system.</p> <p>Keywords : Direction of arrival, MUSIC, Virtual Multi-antenna array, RF transmitter localization.</p>	<p>WG2</p>

<p><b>TD(22)01050</b></p>	<p>Mohammed Mallik, Sofiane Kharbech, Taghrid Mazloum, Shanshan Wang, Joe Wiart, Davy P. Gaillot and Laurent Clavier</p>	<p>EME-Net: A U-net-based Indoor EMF Exposure Map Reconstruction Method</p>	<p>In wireless communication systems, in order to respond to the perception of risks related to electromagnetic field exposure and allocate radio resources, the estimation of the received power and exposure map is an essential task and a challenge. This paper proposes an algorithm for estimating electromagnetic field exposure maps using U-net architecture based on convolutional neural networks. The power map estimation is transformed into an image reconstruction task by image color mapping, where every pixel value of the image represents received power intensity. The designed model learns wireless signal propagation characteristics in a realistic indoor environment while considering various positions of the Wi-Fi access points. Results show that indoor propagation phenomena and environment models can be learned from data producing an accurate power map to measure the electromagnetic field.</p>	<p>WG1,VT1</p>
<p><b>TD(22)01051</b></p>	<p>Antonio Tarrias, Sergio Fortes &amp; Raquel Barco</p>	<p>5G failure modeling and insights in ns-3 network simulation scenarios</p>	<p>Failure management has been one of the most researched fields in cellular networks paradigm. Networks operators has experienced many problems on their deployments with each of the past generations. 5G networks aim high to encompass a wide variety of services, which means a large amount of resources on network management and failure resolution. The objective of the present work is to use the previous generation as base and provide, together with the updates on 3GPP specification, insights about what would be the problems that networks will handle. For this, they were identified and categorised some of these failures at the same time their effect on system performance was evaluated.</p>	<p>WG2,WG3</p>
<p><b>TD(22)01052</b></p>	<p>Sami Chajii, Philippe De Doncker, François Quitin</p>	<p>Environment mapping with 28 GHz beamsteering transceivers: hardware architecture and preliminary results</p>	<p>The evolution of radio communications systems towards millimeter-wave (mm-wave) frequencies allows for new opportunities in terms of localization and environment mapping. The increase in bandwidth and size of antenna arrays creates great similarities between 28 GHz communication systems and radar systems. There are several challenges to use 28 GHz communication systems for environment mapping: 1) it is unclear whether multipath components can be identified with arrays that rely on beamsteering, 2) the local oscillator (LO) is not shared between the transmitter and the receiver, causing considerable LO frequency offsets, and 3) the high power of the line-of-sight component tends to “blind” the receiver to all other multipath. In this paper, we realize (relatively) low-cost 28 GHz software-defined radio-based transceivers that use 4x4 antenna arrays. The transceiver architecture is presented, and the setup is used to perform some preliminary measurements. These first results indicate that some amount of multipath components can be recovered, even with limited angular resolution of a 4x4 beamsteering array.</p>	<p>WG2</p>

<p><b>TD(22)01053</b></p>	<p>Srdjan Sobot, Milan Lukic, Marko Beko, Dejan Vukobratovic</p>	<p>UAV-assisted 3GPP NB-IoT Network Extension for Deep Rural Deployments</p>	<p>In this work, we develop and demonstrate a two-tier Low Power Wide Area Network (LP-WAN) system based on Unmanned Aerial Vehicle (UAV) base stations suitable for dynamic deployment in deep rural environments. The proposed UAV-based LP-WAN network augments the existing macro-cellular 3GPP NB-IoT network (Tier 1) with an additional layer of mobile base stations (Tier 2) which, in our setup, are based either on LoRa or NB-IoT technology. Mobile Tier 2 LoRa/NB-IoT base stations provide connectivity to static or mobile NB-IoT/LoRa user equipment deployed in the areas without direct Tier 1 NB-IoT network coverage. The proposed two-tier LP-WAN network scenario is suitable for various agricultural, forestry and environmental applications such as livestock or wild animal monitoring. In this experimental work, we report the prototype that was successfully deployed and used in a real-world deep rural environment without Tier 1 LP-WAN network coverage.</p>	<p>WG3,VT2</p>
<p><b>TD(22)01054</b></p>	<p>Carolina Gijón, Matías Toril, Salvador Luna</p>	<p>Modelling Performance in Sliced Radio Access Networks with Supervised Learning</p>	<p>In 5G, Network Slicing (NS) feature allows to deploy several logical networks customized per specific business models over a common physical infrastructure. In the Radio Access Network (RAN), slice-level performance models are required for spectrum sharing and network re-dimensioning purposes, among other tasks. Throughput is often regarded as a key performance metric due its strong impact on satisfaction of users demanding enhanced Mobility Broadband (eMBB) services. In this work, we present the first comprehensive analysis to assess well-known supervised learning algorithms for estimating slice throughput in the down link from information collected in the Operation Support System (OSS) in RAN-sliced networks. The considered approaches include support vector regression, k-nearest neighbors, ensemble methods based on decision trees and neural networks. All these algorithms are tested in two NS scenarios considering single-service and multi-service slices, respectively. To this end, 5 datasets with performance indicators and connection traces are created with a system-level simulator emulating the activity of a live cellular network. Results show that the best SL algorithm and input information required to estimate throughput at different level (i.e. cell/slice) and NS scenario (single-service/multi-service) may vary. Nonetheless, the best model in each scenario have shown adequate accuracy (i.e., error under 10%).</p>	<p>WG3</p>

<p><b>TD(22)01055</b></p>	<p>Dennis Becker</p>	<p>Measurement Based Identification of MPCs in an Urban Drone-to-Drone Propagation Scenario</p>	<p>The risk of mid-air collisions between flying drones has to be minimized to the greatest possible extent as it endangers people in the air and on the ground especially when being integrated into dense urban airspace. For a safe and efficient operation drones will need to exchange information in a robust and reliable manner and one essential part will be direct Drone-to-Drone (D2D) communications. Especially, for dense drone scenarios in urban environments a communication system must cope with the specific underlying channel propagation conditions. In order to characterize the propagation effects between two moving drones in urban environments, we performed a channel sounding measurement campaign and presented an approach in previous work to localize the origin of the measured multipath components (MPCs) for a three-dimensional layout. In this work, we apply it on our measured flight scenarios in three different environments in order to identify the MPCs by assigning them to real-world objects. Furthermore, we describe first characteristics for them and show that the measured urban scenario consists of different kinds of components that must be considered in a future D2D channel model.</p>	<p>WG1,WG2</p>
<p><b>TD(22)01056</b></p>	<p>J. M. Sanchez-Martin, M. Toril, C. Gijon, S. Luna-Ramirez, M. Fernandez-Navarro</p>	<p>Coordination and Capacity Analysis in C-RAN for HetNets</p>	<p>In this work, a capacity analysis method is proposed for a centralized radio access network composed of macrocells and small cells. Radio remote head (RRH) are grouped in base band unit (BBU) pools using graph-partitioning algorithms. For this purpose, Inter-Cell Interference Coordination (ICIC) and Coordinated Multi-Point Transmission/Reception (CoMP) techniques are used to evaluate their influence on the network under different load levels and coordination restrictions. The testing phase is carried out using a radio network planning tool. This tool is used to evaluate the spectral efficiency metrics and allocation of shared resources per cell obtained over a real Long-Term Evolution (LTE) heterogeneous network. The results present the load and coordination conditions between cells necessary to achieve capacity improvements in the system.</p>	<p>WG3</p>
<p><b>TD(22)01057</b></p>	<p>Paul Unterhuber, Michael Walter, Thomas Kürner</p>	<p>Geometry-Based Stochastic Channel Model for Train-to-Train Communication in Open Field Environment</p>	<p>Future railway applications, e.g., wireless train bus or virtual coupled trains, will rely on train-to-train (T2T) communication. Those future applications require an exchange of safety critical data between trains within one train-set based on wireless communication. Hence, the investigation of the propagation effects and the influence on the wireless communication is tremendously important. Future developments of communication standards and systems demand a detailed characterization and modeling. We investigated the propagation mechanisms based on channel sounding measurements and derived statistics for the propagation effects. Based on the environment, geometry and the propagation statistics we derive channel models for T2T communication. To cope with the movement of the trains, the changing environment and resulting temporal correlation effects we present a geometry-based stochastic channel model (GSCM) for T2T communication in open field environment.</p>	<p>WG1,VT2</p>

<p><b>TD(22)01059</b></p>	<p>Botond Tamás Csathó, Bálint Péter Horváth, János Bitó</p>	<p>Finite Element Method-based Analysis and Control of Reconfigurable Intelligent Surfaces</p>	<p>Reconfigurable intelligent surface (RIS) is a promising paradigm for future wireless networks. The core idea is to utilize a nearly-passive, real-time configurable metasurface between the transmitter and the receiver, thus gaining partial control over the wireless channel. It is a relevant yet unsolved question whether this paradigm can enable significant performance improvement. The design, performance analysis, and optimal control of RISs are a gold mine of research topics. A physically consistent model of the metasurface which captures the essential phenomena is vital for both analysis and control of RISs. In this technical document, we analyze the reflection from a RIS with the finite element method (FEM). The physical structure of the RIS is based on a prototype described in the literature. We numerically optimize the parameters of the RIS to tune the reflected electromagnetic waves into the desired direction.</p>	<p>WG1</p>
<p><b>TD(22)01060</b></p>	<p>Pekka Kyösti, Pasi Koivumäki, Katsuyuki Haneda, Wei Fan</p>	<p>On usability of lower radio frequency channel information for high frequency beam search</p>	<p>How similar is the angular power profile of propagation channel at different frequency bands between 4 and 86 GHz? How well can low band channel information be used for beam search procedures at a higher frequency, considering practical antenna size limitations? In this TD we aim to address these questions by analysing point cloud ray tracing data of an airport check-in area at 4, 15, 28, 60, and 86 GHz frequencies. Prior to the analysis we develop and propose an analysis method that considers both antenna beam patterns and the multi path propagation channel.</p>	<p>WG1</p>
<p><b>TD(22)01061</b></p>	<p>Raheeb Muzaffar, Mahin K. Atiq, Emiliano Sisinni, Thilo Sauter, and Hans-Peter Bernhard</p>	<p>5G Deployment Models and Configuration Choices for Industrial Networks – a State of Art Overview</p>	<p>The Industry 4.0 digital transformation is led by the automation of manufacturing processes. Communication being a backbone can be enabled through the much promising 5G technology to provide connectivity to industrial internet of things. The 5G new radio support for ultra-reliable low latency communication and integration with time-sensitive networking can enable automated operation for latency-critical and deterministic industrial applications. In this paper, we provide an overview on 5G enabling technologies and non-public network deployment variants including details on multi-access edge computing infrastructure that can be selected according to the needs of an industrial setup. Moreover, we discuss 5G integration with time-sensitive networking and open platform communications unified architecture for ubiquitous industrial communication requirements. 5G QoS support and security aspects for industrial networks are also discussed.</p>	<p>WG3,VT3</p>
<p><b>TD(22)01062</b></p>	<p>Danila Ferretti, Paolo Lanci, Buket Torun, Davide Amato, Roberto Verdone</p>	<p>LoRa-Based Railway Signalling System for Secondary Lines</p>	<p>Italian railway signalling systems are slowly evolving from national solutions, such as SCMT-SSC systems, towards European solutions, which are the ERTMS-ETCS systems. The rationale behind this work is that on the national railway network, only high-speed lines implement European-type signalling, while this project proposes a technological and cost-effective solution for the implementation of ERTMS-ETCS for secondary regional lines, which are about 60 per cent in Italy. This research activity investigates the possibility to implement a LoRa-based wireless train network for a feasible onboard train integrity solution following a European signalling system. In addition, it is proposed a train-to-ground network, which is based on the same technology, to develop a communication system with train localization/detection capability. This paper investigates a railway scenario with electronic devices placed on each vehicle of the train and on some catenary masts at a fixed distance. Both are equipped with LoRa modules for wireless communication and localisation purposes. To this aim, a LoRa protocol is designed to jointly consider: i) train-to-ground network; ii) multi-hop ground network.</p>	<p>VT2</p>

<p><b>TD(22)01063</b></p>	<p>Simon Demey, Charles Wiame, Claude Oestges and Philippe De Doncker</p>	<p>Investigation on the trade-offs between deterministic ray-tracing and stochastic methods in a Manhattan-like environment</p>	<p>The proposed work tries to quantify how relevant it is to use a deterministic channel model like ray tracing at a network deployment level in a Manhattan-like environment. More precisely, the goal is to compare it with simpler and more computationally efficient models to see if similar results can be obtained at a lower cost. In the framework of the analysis, ray tracing is thus compared to a stochastic geometry-based model in terms of coverage probability and exposure at a centric user for which we were able to derive semi-closed form expressions. In addition, a good lower bound for the joint coverage-exposure distribution was found. In order to easily mimic the propagation mechanisms implemented in the UCLouvain RT software (i.e. LOS, reflection and edge diffraction) and enable fair comparison, the Berg recursive model was considered as channel model. Finally, the analytical expressions were further enhanced to take into account the antenna height, the street width as well as the line-of-sight probability in the typical street and to distinguish a typical user located at a crossroad from a typical user located inside a street.</p>	<p>WG1</p>
<p><b>TD(22)01064</b></p>	<p>Network Attack Classification in IoT Using Support Vector Machines</p>	<p>Christiana Ioannou and Vasos Vassiliou</p>	<p>Machine learning (ML) techniques learn a system by observing it. Events and occurrences in the network define what is expected of the network's operation. It is for this reason that ML techniques are used in the computer network security field to detect unauthorized intervention. In the event of suspicious activity, the result of the ML analysis deviates from the definition of expected normal network activity and the suspicious activity becomes apparent. Support vector machines (SVM) are ML techniques that have been used to profile normal network activity and classify it as normal or abnormal. They are trained to configure an optimal hyperplane that classifies unknown input vectors' values based on their positioning on the plane. We propose to use SVM models to detect malicious behavior within low-power, low-rate and short range networks, such as those used in the Internet of Things (IoT). We evaluated two SVM approaches, the C-SVM and the OC-SVM, where the former requires two classes of vector values (one for the normal and one for the abnormal activity) and the latter observes only normal behavior activity. Both approaches were used as part of an intrusion detection system (IDS) that monitors and detects abnormal activity within the smart node device. Actual network traffic with specific network-layer attacks implemented by us was used to create and evaluate the SVM detection models. It is shown that the C-SVM achieves up to 100% classification accuracy when evaluated with unknown data taken from the same network topology it was trained with and 81% accuracy when operating in an unknown topology. The OC-SVM that is created using benign activity achieves at most 58% accuracy.</p>	<p>WG3,VT3</p>
<p><b>TD(22)01065</b></p>	<p>Lennart Thielecke, Thomas Kürner</p>	<p>Consideration of Latencies in an SDR-based V2X Channel Emulator</p>	<p>In this paper, we analyze possible sources of latency in an SDR-based channel emulator. A tapped delay line (TDL) is used to model the channel impulse response. The impact of the TDL parameterization on the overall latency of the channel emulator is investigated. The performance difference between a CPU-based and an FPGA-based implementation is measured and compared. The test environment is set up using open-source frameworks.</p>	<p>WG1,WG2</p>

<p><b>TD(22)01066</b></p>	<p>Rafael Asorey-Cacheda, Luis M. Correia, Concepcion Garcia-Pardo, Krzysztof Wojcik, Kenan Turbic, and Pawel Kulakowski</p>	<p>When Body Area Network Reaches the Nano Level: An Architecture for Cardiovascular Health Applications</p>	<p>Cardiovascular events occurring in the bloodstream are responsible for about 40% of human deaths in developed countries. Motivated by this fact, we present a new global network architecture for a system for the diagnosis and treatment of cardiovascular events, focusing on problems related to pulmonary artery occlusion, i.e., situations of artery blockage by a blood clot. The proposed system is based on bio-sensors for detection of artery blockage and bio-actuators for releasing appropriate medicines, both types of devices being implanted in pulmonary arteries. The system can be used by a person leading an active life and provides bidirectional communication with medical personnel via nano-nodes circulating in the bloodstream constituting an in-body area network. We derive an analytical model for calculating the required number of nano-nodes to detect artery blockage and the probability of activating a bio-actuator. We also analyze the performance of the body area component of the system in terms of path loss and of wireless links budget. Results show that the system can diagnose a blocked artery in about 3 hours and that after around 3 hours medicines can be released in the exact spot of the artery occlusion, while with current medical practices the average time for diagnosis varies between 5 to 9 days.</p>	<p>VT1</p>
<p><b>TD(22)01067</b></p>	<p>Christia Charilaou, Spyros Lavdas, Ala Khalifeh, Vasos Vassiliou and Zinon Zinonos</p>	<p>Firmware update using multiple GWs in LoraWan networks</p>	<p>The remarkable evolution of the IoT raised the need for an efficient way to update the device's firmware. Recently, a new process was released summarizing the steps for firmware updates over the air (FUOTA) on top of the LoRaWAN protocol. The FUOTA process needs to be completed quickly to reduce the systems' interruption and, at the same time, to update the maximum number of devices with the lowest power consumption. However, as the literature showed, a single gateway cannot optimize the FUOTA procedure and offer the above mentioned goals since various trade-offs arise. In this paper, we conducted extensive experiments via simulation to investigate the impact of multiple gateways during the firmware update process. To achieve that, we extended the FUOTAsim simulation tool to support multiple gateways. The results revealed that several gateways could eliminate the trade-offs that appeared using a single gateway.</p>	<p>WG3,VT4</p>
<p><b>TD(22)01068</b></p>	<p>Julian Karoliny, Thomas Blazek, Hans-Peter Bernhard, Andreas Springer</p>	<p>Multi Hypothesis Interference Tracking in Wireless Networks</p>	<p>With the rise of the Internet-of-Things and Industry 4.0, the number of wireless sensor networks (WSN) and devices with wireless transceivers is steadily increasing. Most of these devices rely on the use of unlicensed frequency bands. These are however limited in number and each additional device may act as new source of interference for the others. If a WSN has strict energy limitations or real-time constraints, interference detection and coexistence becomes very important. Especially in industrial environments, unintended or in the worst case intended interference is a high security risk and counter measures have to be applied as soon as possible. This paper proposes an approach that allows to detect, identify and track interference in WSNs. Using deeper understanding of the source of interference counter measures for the WSN are applied and for example future transmission collisions prevented. For this we adapted the Multi Hypothesis Tracking algorithm and used it with timeslot-based interference measurements on low-cost sensor nodes. With this we are able to detected multiple sources of periodic interference and track them over time. We show the applicability of the algorithm with extensive simulations and demonstrate the performance with measurements of an implemented WSN. With our measurements we were able to estimate the timing of the interference with a root mean squared error (RMSE) of 0.146ms, and the corresponding transmit period with a RMSE of 0.024ms.</p>	<p>WG2,VT3</p>

<p><b>TD(22)01069</b></p>	<p>O. S. Penaherrera-Pulla, Carlos Baena, Sergio Fortes, Eduardo Baena, Raquel Barco</p>	<p>KQI evaluation for 360-Video services over mobile networks</p>	<p>New generation services have become the pillars and basis for the development of cutting-edge mobile networks as 5G and 6G. These technologies are intended to provide high-quality services which currently are not available, for instance, VR (Virtual reality). This paper presents a framework for LTE and 5G that aims to assess the performance of the 360-video service through Key Quality Indicators (KQI). This proposal integrates the immersive experience of omnidirectional video using an HMD (Head Mounted Device) while the performance measurement is done along the user session. The video content uses DASH (Dynamic Adaptive Streaming over HTTP) from a video server located in the cloud. Finally, a performance comparison is provided making use of the data collected through an iterative experiment. The results obtained show the potential of the mobile networks and encourage their use for a high-quality VR service deployment.</p>	<p>WG3,VT1,VT4,HA1,HA2</p>
<p><b>TD(22)01070</b></p>	<p>Angesom Ataklity Tesfay, Sofiane Kharbech, Eric Pierre Simon, and Laurent Clavier</p>	<p>Signal Denoising and Detection for Uplink in LoRa Networks based on Bayesian-optimized Deep Neural Networks</p>	<p>Long-range and low-power communications are one solution to address the IoT challenge. The long-range implies a very low signal-to-noise ratio at the receiver. In addition, low power consumption requires reduced signaling, hence the use of minimum complexity protocols, such as ALOHA, and the lack of communication coordination. Therefore, the increase of objects using this technology will automatically lead to an increase in interference. This paper combines autoencoder and convolutional neural networks for signal denoising and detection in the uplink of a LoRa network. An autoencoder is used to denoise and cope with interference, and a convolutional neural network (CNN) is used to detect the symbols. Simulation results demonstrate that the proposed approach outperforms both the convolutional neural network-based receiver and the classical LoRa receiver in the presence of interference from other LoRa users. The proposed receiver shows around 2 dB gain for a target SER of 0.0001.</p>	<p>WG2</p>
<p><b>TD(22)01071</b></p>	<p>Marco Skocaj, Lorenzo Mario Amorosa, Giorgio Ghinamo, Davide Micheli, Giuliano Muratore, Flavio Zabini, Roberto Verdone</p>	<p>Capacity and Coverage Optimization with MDT Data and Deep Reinforcement Learning</p>	<p>Recent years witnessed a remarkable increase in the availability of data and computing resources in communication networks. This contributed to the rise of data-driven over model-driven algorithms for network automation. This paper investigates a Minimization of Drive Tests (MDT)-driven Deep Reinforcement Learning (DRL) algorithm to optimize coverage and capacity by tuning antennas tilts on a cluster of cells from TIM's network. We jointly utilize MDT data, electromagnetic simulations, and network Key Performance indicators (KPIs) to define a simulated network environment for the training of a Deep Q-Networks (DQN) agent. Some tweaks have been introduced to the classical DQN formulation to improve the agent's sample efficiency and performance. In particular, a custom collection policy, namely depth-wise <math>\epsilon</math>-greedy policy, is designed to introduce constraints at training time. Results show that the proposed algorithm outperforms baseline approaches like DQN and best-first search in terms of long-term reward and sample efficiency. Our results indicate that MDT-driven approaches constitute a valuable tool for autonomous coverage and capacity optimization of mobile radio networks.</p>	<p>WG3</p>

<p><b>TD(22)01072</b></p>	<p>Golsa Ghiaasi, Thomas Blazek, Fjolla Ademaj, Julian Karoliny, Stefan Marksteiner, Markus Wolf, Peter Priller, Hans-Peter Bernhard</p>	<p>SDR-Based Communication Sniffing for Determining the Proliferation of ITS-G5</p>	<p>This paper describes the measurement setup for the proliferation of the vehicular communication systems in operating cars. The setup builds on a communication sniffer which detects cooperative awareness messages broadcast from ETSI ITS-G5 systems, decodes them and records the public information in these messages. The experimental characterization of the setup in an outdoor scenario is presented in order to verify the sniffer's performance with respect to transmit power and communication range. The setup is deployed for measurements on a busy road with slow moving traffic in the center of the city of Linz, Austria. The number of active users as well as their transmit power, duration of the transmission and packet length have been recorded.</p>	<p>WG3</p>
<p><b>TD(22)01073</b></p>	<p>Juan Cantizani-Esteva, Juan Bravo-Arrabal, J.J. Fernández-Lozano, Sergio Fortes, Raquel Barco, Alfonso García-Cerezo</p>	<p>Close detection robotic platform for Search And Rescue missions based on Bluetooth Low Energy</p>	<p>Improvements in telecommunications and digitalization directly improve the efficacy of a wide variety of processes. Recently, detection systems have received considerable attention because of the importance of tracking infected people contacts during SARS-CoV-2 pandemic. Such implementations can be useful in the task of finding potential victims in the context of emergency response, especially in situations where GPS is not available or inspection by imaging is not practical. Radio signals come into play, and specifically from devices that transmit periodically and with low power consumption. With the rise of Internet of Things over the last years, the number of wearable devices that support BLE, such as smartbands, smartwatches or smartphones, has been increasing constantly, as well as the number of users that carry them. Those devices can provide considerable assistance in locating injured or unconscious people. This work presents a system for detecting victims by means of a terrestrial search and rescue (SAR) robot. A real implementation of a close detection robotic platform based on BLE for SAR interventions is laid out. To estimate the distance between a robotic agent and potential victims within an experimental area, a Log-distance path loss model is presented. The proposed scheme has been tested in realistic scenarios during SAR exercises.</p>	<p>WG2</p>
<p><b>TD(22)01074</b></p>	<p>Quentin Gontier, Charles Wiame, Shanshan Wang, Christo Tsigros, François Horlin, Joe Wiart, Claude Oestges, Philippe De Doncker</p>	<p>Modeling the Spatial Distributions of Macro Base Stations with Homogeneous Density: Theory and Application to Real Networks</p>	<p>Stochastic geometry is a highly studied field in telecommunications as in many other scientific fields. In the last ten years in particular, theoretical knowledge has evolved a lot, whether for the calculation of metrics to characterize interference, coverage, energy or spectral efficiency, or exposure to electromagnetic fields. Many spatial point process models have been developed but are often left aside in favor of the Poisson point process because of their unfamiliarity, their lack of tractability or the ease of use of the Poisson point process. This article is intended to be a short guide presenting a complete and simple methodology to follow to infer a real stationary macro antenna network using tractable spatial models. The focus is mainly on repulsive point processes and in particular on determinantal point processes which are among the most tractable repulsive point processes. This methodology is applied to Belgian and French cell towers. The results show that for all stationary distributions in France and Belgium, the best inference model is the <math>\beta</math>-Ginibre point process.</p>	<p>WG2,WG3,V T1,HA1</p>

<p><b>TD(22)01075</b></p>	<p>Benjamin Rainer, Stefan Zelenbaba, Anja Dakić, Markus Hofer, David Löschenbrand, Thomas Zemen, Xiaochun Ye, Guo Nan, Stefan Teschl, Peter Priller</p>	<p>V2V and V2I Wireless Channel Measurement Dataset including Vehicle Sensor Data</p>	<p>This paper discusses a freely available and open dataset containing vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) OFDM-based wireless channel measurement data including synchronised sensor data such as RADAR, LiDAR and high precision GPS. The wireless channel measurement is conducted at the carrier frequencies of 3.2 GHz and 5.9 GHz which are the most promising frequency bands in which future V2X communication systems will operate. The dataset contains the wireless channel measurement data of various V2X scenarios along with synchronized sensor information from a vehicle. In addition to the wireless channel measurement data, the dataset also includes frame error rate measurements from a IEEE 802.11p based communication system, synchronized to the other measurement data. The dataset includes V2V, V2I and V2P measurements with different scenarios.</p>	<p>WG1,HA1</p>
<p><b>TD(22)01076</b></p>	<p>Franco Fuschini, Marina Barbiroli, Enrico Maria Vitucci, Vittorio Degli-Esposti</p>	<p>Multi-Band Outdoor-to-Indoor Propagation Measurements Using a Drone</p>	<p>Outdoor-to-indoor propagation path-loss measurements have been carried out at 27 and 38 GHz, two of the frequencies allocated for 5G networks, for two different buildings: an office glass, steel and concrete building and a brick-wall residential house. The outdoor station has been mounted on a drone in order to have more placement flexibility and reach the desired height above ground without the use of a crane truck. Overall outdoor-to-indoor loss seems to depend primarily on the window surface and on the construction material. While loss is higher at 38GHz with respect to 27 GHz for the office building, brick-walls of the residential house appear to be less frequency selective.</p>	<p>WG1</p>
<p><b>TD(22)01077</b></p>	<p>Silvia Mignardi, Danila Ferretti, Riccardo Marini, Francesca Conserva, Stefania Bartoletti, Roberto Verdone, Chiara Buratti.</p>	<p>Beam and Resource Assignment Optimization for UAV-Aided Vehicular Networks: Centralized and Distributed Architectures</p>	<p>Future mobile radio networks require a degree of flexibility that technologies like Unmanned Aerial Vehicles (UAVs) carrying Base Stations (BSs) can provide. It is expected that the lower space above cities will be populated by many different types of UAVs, flying on a predefined path for a given mission, such as patrolling and logistics. This paper investigates an urban scenario with terrestrial macro BSs (MBSs) deployed and UAVs travelling on a predefined path carrying BS equipment with beamforming to be activated on demand. In the same area, several vehicles are moving while relying on network services, and MBSs alone might not serve them adequately. We propose a network model where UAVs can be activated to work as BSs if needed and help the MBSs to fulfill the vehicular demand. To this purpose, we propose an optimization algorithm able to select the best set of beams each UAV has to activate, together with the number of resource units (in terms of time and frequency), maximizing the number of served vehicles. The optimization algorithm accounts for i) a joint resource allocation for both MBSs and UAVs that avoids interference, ii) a limited backhaul capacity, and iii) the architectural choice. Indeed, we analyse two different system architectures: i) a distributed model in which MBSs run the Radio Resource Management algorithm (RRM) separately, sharing environment information with each other; ii) a fully centralized model in which MBSs send their information to the network core, which is in charge of running the RRM algorithm. Numerical results compare the two architectures and show the impact of backhaul capacity on the performance.</p>	<p>WG3</p>

<p><b>TD(22)01078</b></p>	<p>N. González, M. Solera, F. Ruiz, S. Luna, M.Toril</p>	<p>A quality of experience evaluation method for an UAV first person view system</p>	<p>Unmanned Aerial Vehicles (UAV) communication systems are an increasingly widespread and emerging technology due to their flexibility, low cost and usability properties. Hence, the demand for Beyond Visual Line of Sight (BVLOS) cases that require large data transmission and low latency in cellular networks are increasingly. In this work, the assembly, integration and networking of a UAV quadrotor for First Person View (FPV) system connected by LTE is presented. Different configurations of the link between the UAV and the Ground Control Station (GCS) are proposed, such as connection by LTE cloud-based server, direct LTE connection and direct WiFi connection. With these configurations, experiments are carried out to characterise the network metrics that model this service according to the telemetry, control and video traffic. The main contribution is the definition of a closed mathematical expression provided to define the Quality of Experience (QoE) for FPV use cases considering the video quality in terms of Video Multimethod Assessment Fusion (VMAF), network latency and video resolution as inputs. This expression will be applied to real experiments considering link performance, in which network changes based in packet loss and latency alterations will be introduced to measure the QoE of the UAV system.</p>	<p>WG3</p>
<p><b>TD(22)01079</b></p>	<p>Rolando Guerra-Gómez, Sílvia Ruiz-Boqué, Mario Garcia-Lozano and Umar Saeed</p>	<p>Flexible Radio Access Network Optimization with Cell Coordination</p>	<p>This paper focuses on Beyond fifth generation (B5G) non-linear data modeling and decision-making tools to optimize cost reduction versus coverage-QoS trade-off. Especially, the distribution of active Remote Radio Heads or Units (RRHs) needed, according to traffic demands, is improved. The proposed optimization platform is based on a multi-objective optimization model, which is designed to reduce the network cost while maintaining the coverage-QoS. Capacity constraints, User Equipments (UEs), and different slices are considered to test the results under realistic conditions. Results at 3.6 and 28 GHz are presented by analyzing and comparing several Cloud Radio Access Network (C-RAN) split options in a heterogeneous deployment with Macro-RRHs (MRRHs) and Small-RRHs (SRRHs). Results show cost reductions from 30% to 70% depending on the scenario. Moreover, the proposed algorithm aggregates the possibility to consider the coordination between cells in order to improve the cost reduction. The results considering cooperation has been presented at both frequency bands with a fully centralized C-RAN (split option 8).</p>	<p>WG3</p>
<p><b>TD(22)01082</b></p>	<p>Jerzy Mizeraczyk, Ryszard Studanski, Andrzej Zak and Agnieszka Czapiewska</p>	<p>A Method for Underwater Wireless Data Transmission in a Hydroacoustic Channel under NLOS Conditions</p>	<p>Wireless data transmission in the hydroacoustic channel under non-line-of-sight (NLOS) propagation conditions, for example, during a wreck penetration, is difficult to implement reliably. This is mostly due to the multipath propagation, which causes a reduction in the quality of data reception. Therefore, in this work an attempt has been made to develop a reliable method of wireless underwater communication test it under the NLOS conditions. In our method, we used multiple frequency-shift keying (MFSK) modulation, sending a single bit on two carriers, and diversity combining. The method was tested in laboratory conditions which simulated underwater signal propagation during the penetration of the wreck. The propagation conditions were investigated by determining the impulse responses at selected measurement points using the correlation method. Additionally, for comparison, the data transmission quality was determined by the bit error rate (BER) under the same conditions using direct sequence spread spectrum (DSSS) and binary phase shift keying (BPSK) modulation. The obtained results confirmed the usefulness of the application of the developed method for wireless data transmission in a hydroacoustic channel under NLOS conditions.</p>	<p>WG1, WG2</p>

<p><b>TD(22)01083</b></p>	<p>Simona Valbonesi and Paolo Grazioso</p>	<p>Predictive evaluation of the increase in on-air E-field levels as consequence of 5G AAS systems deployments</p>	<p>In order to fully exploit their capabilities, 5G networks need a high availability of electromagnetic space. Overly precautionary exposure limits may hinder the correct and complete development of 5G, and in some cases even the full penetration of 4G networks. The context is extremely complicated, because on the one side the implementation of new generations network requires deploying more antennas on the territory, while on the other side population, and in some case also politicians, keep expressing concerns about potential risks associated to radio-frequency electromagnetic emissions. This works presents a numerical evaluation, achieved through extrapolation, of electrical field levels that will be present in a given urban scenario when adding the contribution of 5G emissions (considering only broadcast channel, or adding variable traffic or, finally, including traffic that uses the whole capacity of 5G) to the pre-existing field levels due to 2G, 3G, and 4G sites. This evaluation has been carried out through the analysis of cumulative distribution functions of real measurements data. Beyond the evaluation of expected field levels due to the new deployments, we present an estimate of the impact of new technologies on the saturation of electromagnetic space in regions and countries where field exposure limits are particularly restrictive, such as Italy.</p>	<p>WG1, VT4</p>
<p><b>TD(22)01084</b></p>	<p>Simona Valbonesi and Paolo Grazioso</p>	<p>Predictive evaluation of the impact of legacy technologies dismantling on E-field levels in urban areas</p>	<p>The commercial launch of 5G services spurs reflections on the exploitation of spectral resources and of electromagnetic field levels present in residential and working environments. Analyses carried out at European level showed that in a near future a remarkable fraction of mobile data traffic requests might not be satisfied in such areas or countries, like Italy, where the regulatory framework foresees more stringent limits than those suggested by the ICNIRP. A possible solution to face this issue could be the (total or even partial) dismantling of legacy technologies (2G and/or 3G). Such dismantling could allow to free valuable resources that would be useful for the 5G development, both in terms of “electromagnetic space” in the transmission sites, and in terms of spectrum, i.e. of bandwidth that could be used to maximise 5G capacity. However, prior to make this choice, one should consider the actual use of legacy technologies by some crucial vertical services such as smart metering and e-calls. In this contribution we don’t take into account the regulatory, logistical and economic issues related to the possible replacement of 2G and/or 3G technologies with 5G; rather, we perform an evaluation of electrical field levels that may be expected if this replacement is carried out, considering different cases: with only the broadcast signal or with traffic (from light traffic to full cell occupation). The analysis was carried out by comparing cumulative distribution functions for the current configuration with cases when one or both legacy technologies are completely replaced by 5G.</p>	<p>WG1, VT5</p>
<p><b>TD(22)01085</b></p>	<p>H Ahmadi, A Nag, Z Khan, K Sayrafian, S Rahadrja</p>	<p>Networked Twins and Twins of Networks: an Overview on the Relationship Between Digital Twins and 6G</p>	<p>Digital Twin (DT) is a promising technology for the new immersive digital life with a variety of applications in areas such as Industry 4.0, aviation, and healthcare. Proliferation of this technology requires higher data rates, reliability, resilience, and lower latency beyond what is currently offered by 5G. Thus, DT can become a major driver for 6G research and development. Alternatively, 6G network development can benefit from Digital Twin technology and its powerful features such as modularity and remote intelligence. Using DT, a 6G network (or some of its components) will have the opportunity to use Artificial Intelligence more proactively in order to enhance its resilience. DT’s application in telecommunications is still in its infancy. In this article we highlight some of the most promising research and development directions for this technology.</p>	<p>WG3</p>

<p><b>TD(22)01086</b></p>	<p>Afonso Carvalho, Luís M. Correia, António Grilo, Ricardo Dinis</p>	<p>Analysis of Strategies for Minimising End-to-End Latency in 4G and 5G Networks</p>	<p>The main purpose of this paper is to identify and study a variety of strategies that effectively reduce the end-to-end latency in both 4G and 5G networks. This latency reduction will allow the operators to provide URLLC services to the users, such as: remote surgeries, the Intelligent Transport Systems and factory automation services. To verify if those services can be implemented using the 4G and the 5G systems, the developed model considers several variables: the MEC node deployment option, the functionality splitting options, the radio techniques, and the network architectures. The MEC technology appears in the paper as the solution that allows the end-to-end latency values to reach values below 1 ms, which are required for some of the URLLC services. The results obtained show that the 4G system does not have enough capacity to allow the existence of the upcoming services. Even with the MEC node deployment that minimizes the latency, the LTE network is not able to provide the URLLC services under study. The simulations show that using the adequate latency reduction strategies and radio techniques, the 5G system has enough capacity and sufficiently low latencies to provide the upcoming services.</p>	<p>WG3</p>
<p><b>TD(22)01087</b></p>	<p>Sibren De Bast, Evgenii Vinogradov, Sofie Pollin</p>	<p>User localisation in distributed Massive MIMO networks</p>	<p>The recent interest in using Massive MIMO (MaMIMO) networks for user positioning and the trend towards cell-free MaMIMO with a large number of APs, result in the question of how these two will be combined efficiently. Current algorithms process all signals in a central processing unit, resulting in a high fronthaul requirement when deploying them in a distributed system. In this paper, we compare state-of-the-art localisation methods which process the signal in a central or distributed way. We propose novel distributed localisation methods and use state-of-the-art algorithms as a benchmark. Next to comparing the localisation accuracy, we evaluate the sample efficiency, the performance in a dynamic setting, the scalability and fronthaul requirement of the methods. The proposed Distributed ML-MUSIC method, which combines machine learning and analytical signal processing, reaches a median error of 34.2 mm while only using 500 training samples. Furthermore, due to its distributed design, it lowers the fronthaul requirement 1200-fold in comparison to centralised methods. Furthermore, this method has the lowest computational complexity of all analysed methods, making it an ideal method for upcoming cell-free networks.</p>	<p>WG2</p>
<p><b>TD(22)01088</b></p>	<p>Yann Maret, Franck Legendre, Jean-Frédéric Wagen</p>	<p>Preliminary investigations of a Graph Neural Networks for routing in MANETs</p>	<p>Graph Neural Networks (GNNs) are popular algorithms to learn from graph-based applications. MANETs are networks of radio mobiles and can be presented as a graph evolving with the dynamic of the topology. A graph contains nodes, the radio mobiles; and links, the channel of communication between radios. The proposed approach based GNNs are expected to improve the performance of MANETs by adapting the route to the topology scenario. The contribution is based on the GNN-based Data Driven Routing (GDDR) framework developed by Oliver Hope. The DDR framework use GNNs to learn multi-commodity routing in Software Defined Networks. The DDR framework is investigated to develop an agent capable of learning a policy that balances the route according to a QoS in MANETs. The central agent observes a number of traversals on each node and should minimize the node utilization. The performance of the agent is compared to our best-known solution based on a genie approach: called Omniscient Dijkstra Routing. Both algorithms are evaluated on the tactical Anglova Company 1 MANET scenario and are assessed using real-time emulation based on the open source EMANE framework. Work in progress is reported.</p>	

<p><b>TD(22)01089</b></p>	<p>Xiping Wang, Zhao Zhang, Danping He, Ke Guan, Zhangdui Zhong, Dongliang Liu</p>	<p>Ray-tracing simulation and Analysis of 5G Channel Characteristics in Dense Urban Areas</p>	<p>Ray-tracing (RT) technology has received much attention with the fast advances of the Fifth Generation (5G) wireless communication. Based on our self-developed ray-tracing platform CloudRT, 5G band (3.5 GHz-3.6 GHz, 4.8 GHz-4.9 GHz) wireless channels are simulated in 8 different dense urban areas in 4 Chinese major cities (Beijing, Shanghai, Hangzhou, Xi'an) and the second-order channel characteristics including delay spread (DS), azimuth angle spread of arrival (AASA), elevation angle spread of arrival (EASA), rays power ratio, etc, are visualized and analyzed. This is of great significance for analyzing the channel characteristics under the 5G frequency band, for better signal coverage and for other engineering issues. In addition, a large database covering multi-path and multi-dimensional channel characteristics has also been constructed. At the end, this research is concluded by highlighting several potential research directions and open issues which should be further addressed in the future</p>	<p>WG1, WG2, WG3</p>
<p><b>TD(22)01090</b></p>	<p>Wenbin Li, Danping He, Ke Guan, Xiangyu Shi, Zhangdui Zhong</p>	<p>Millimeter-Wave Radar Measurement and Ray-Tracing Simulation for Urban Street Environment</p>	<p>Autonomous driving technology greatly contributes to the evolution of intelligent transportation systems (ITSs). As an important sensor, the millimeter-wave (mmWave) radar plays an irreplaceable role in the overall ITSs. In this paper, we use a mmWave automotive radar system to perform measurement in an urban street environment. The radar cross section of key targets is estimated from the measurements, and it is used to calibrate the electromagnetic parameters for the ray-tracing (RT) simulation. The calibrated simulation results are compared with simulation results in distance, angle, and velocity to verify the accuracy and reliability of the RT simulator. The presented method, process, and analysis in this work can be used for the understanding of mmWave radar channel and the design of autonomous driving technology.</p>	<p>WG1, WG2, WG4</p>
<p><b>TD(22)01091</b></p>	<p>Pengxiang Xie, Ke Guan, Danping He, Haofan Yi, Jianwu Dou, Bo Ai, Zhangdui Zhong</p>	<p>Terahertz Wave Propagation Characteristics on Rough Surfaces Based on Full-wave Simulations</p>	<p>Terahertz (THz) communications are considered as a critical technology for the future wireless communication. The THz band (0.1-10 THz) offers ultra-wide bandwidths and promises to satisfy the need for ultra-high-speed wireless communication. Although propagation characterization is necessary for the THz system design and validation, the response mechanism between the surface roughness and the THz wave is rarely studied. According to the Rayleigh Criterion, most surfaces in a physical environment may be considered to be rough. Scattering on rough surfaces will play a significant role in the THz propagation. Due to the difficulty of practical measurements at the THz band, we use a full-wave simulation method to study the propagation characteristics of scattering on rough surfaces. Firstly, the Monte Carlo method is used to model rough surfaces with different root-mean-squared (RMS) heights and correlation lengths. Then, with full-wave simulations, frequency dependency, material dependency, and surface size dependency are discussed. By changing the roughness of surfaces, scattering on different rough surfaces at 300 GHz are simulated. Afterwards, the cross-polarization discrimination (XPD) of each case is analyzed and counted to evaluate the depolarization effect. This study shows that scattering can become a prominent propagation mechanism with the growth of roughness. Besides, the depolarization effect becomes much more severe for a rougher surface. Studying THz propagation characteristics on rough surfaces is critical to accurate THz channel modeling, which further supports the design and deployment of THz communication systems.</p>	<p>WG1, WG2, WG5</p>

<p><b>TD(22)01092</b></p>	<p>Xiyu Wang, Pengxiang Xie, Ke Guan, Haofan Yi, Danping He, Ben Chen, Jianwu Dou</p>	<p>TCharacterization for Scattering of Rough Surfaces in the Terahertz Band</p>	<p>Terahertz (THz) communication has been recognized by the global communication industry as a key technology for realizing the vision of the sixth-generation mobile communication (6G). The THz band (0.1-10 THz) offers ultra-wide bandwidths and promises to support diverse application scenarios in the future. According to the Rayleigh Criterion, when the wavelength is close to the surface roughness, a surface that is considered smooth at low frequencies will become rough for THz waves. Hence, the scattering on rough surfaces will play a much more important role in THz wave propagation. However, due to the great difficulty in carrying out extensive measurements in the THz band, few studies on scattering of THz waves have been conducted. In this paper, we use the full-wave simulation method to study the scattering of rough surfaces in the THz Band. By changing the roughness of surfaces, scattering on different rough surfaces at 300 GHz is simulated in Feko. Then, the directional scattering (DS) model is used to characterize the scattering on rough surfaces. The equivalent roughness <math>\alpha_R</math> and scattering coefficient <math>S</math> are key parameters of the DS model. Based on the full-wave simulation results, we investigate the impact of the roughness on <math>\alpha_R</math> and <math>S</math> to explore the applicability of the DS model in the THz band. Characterization for scattering of rough surfaces is crucial to the THz channel modeling towards standardization in the future, which further supports the design and deployment of THz communication systems.</p>	<p>WG1, WG2, WG6</p>
<p><b>TD(22)01093</b></p>	<p>Jean-Frédéric Wagen, Yann Maret, Nicolas Ramosaj, Franck Legendre</p>	<p>Profiling routing and message completion rate using real time emulations and simulated fading</p>	<p>In the context of beyond 5G, V2V, D2D, WiFi Mesh, etc., wireless system simulations are often used to compare new proposals to enhance the performances. When the performance metric is the link goodput or Packet Error Rate versus SINR, bit level simulations of the radio system, e.g., 802.11, and of fading via standard radio propagation models, e.g., 802.11 TG, COST IRACON Geometry-based Stochastic Channel Model or Winner, are usually favored. When multi-user system performance metrics are considered, e.g., message completion rate, the detailed radio propagation simulation approach is computationally expensive. Another approach is to pre-compute the Packet Error Rate (PER)-vs-SINR for a given Tx-Rx standard including the modulation and coding scheme used, a specific radio channel model including fading and a given packet size. Previous COST IRACON TDs contributed to show the benefit of the so-called "LOS+G" approach: using link level simulation, for 802.11n, the PER-vs-SINR curves in fading conditions, e.g., for 802.11 TGN B, can be reproduced by keeping the PER-vs-SINR for the non-fading Line-Of-Sight (LOS) case but adding, to each packet, a log-normal fading, i.e., a Gaussian random variable to the pathloss (PL) in dB: <math>LOS+G(m=2.6, s=5)</math>. This contribution shows some results comparing the "no fading", "LOS+G every second" and "PER-VS-SINR" approaches on the performance, here the message completion rate, for a 24 nodes MANET using real time emulations playing the realistic anglova.net pathloss scenario. The fading effects on three routing algorithms for MANET are presented. The three routing algorithms are: 1) OLSRd2 from olsr.org, 2) a so-called Omniscient Dijkstra Routing provided with non-faded pathloss values, and 3) P3ODR provided with the "LOS+G every second" values.</p>	

<p><b>TD(22)01094</b></p>	<p>C. Ben Issaid (U. Oulu), C. Antón-Haro (CTTC), X. Mestre, M.S. Alouini (KAUST)</p>	<p>Coupling Gradient-Boosting Decision Trees and Classifier Chains for Efficient User Grouping in MIMO-NOMA</p>	<p>In this paper, we propose a data-driven approach to group users in a Non-Orthogonal Multiple Access (NOMA) MIMO setting. Specifically, we formulate user clustering as a multi-label classification problem and solve it by coupling a Classifier Chain (CC) with a Gradient Boosting Decision Tree (GBDT), namely, the LightGBM algorithm. The performance of the proposed CC-LightGBM scheme is assessed via numerical simulations. For benchmarking, we consider two classical adaptation learning schemes: Multi-Label k-Nearest Neighbours (ML-KNN) and Multi-Label Twin Support Vector Machines (ML-TSVM); as well as other naive approaches. Besides, we also compare the computational complexity of the proposed scheme with those of the aforementioned benchmarks.</p>	<p>WG2</p>
<p><b>TD(22)01095</b></p>	<p>Paweł Sroka (presenter), Adrian Kliks</p>	<p>Application of Edge Intelligence Tools for Autonomous Platooning Channel Selection Use Case Analysis</p>	<p>Edge intelligence is one of the key paradigms related to the efficient implementation of future wireless networks. In this context, the surrounding telecommunication infrastructure is intended to support the functioning of the wireless system. Thus, it is necessary to offload some computational efforts to the system edge, allowing the infrastructure to learn and make prospective decisions. However, for the reliable realization of the edge intelligence concept, the wireless system architecture should be designed properly to minimize both storage cost and induced latency. In this paper, we compare three architecture proposals (centralized, distributed, and hybrid) tailored to the autonomous driving use case, being one of the key vertical scenarios in contemporary and future wireless networks. We evaluate the performance of an autonomous platooning system, where the operating frequency is selected dynamically with the support of infrastructure to minimize the overall interference level in the whole band. Extensive computer simulations have been carried out to analyze the impact of the induced delay in signal processing and storage efficiency.</p>	<p>WG1, VT2</p>
<p><b>TD(22)01096</b></p>	<p>Adrian Kliks (presenter), Paweł Sroka, Paweł Kryszkiewicz, Michał Sybis</p>	<p>Results of the channel measurement campaigns for autonomous driving</p>	<p>Platooning is considered to be one of the possible prospective implementations of the autonomous driving concept, where the train-of-cars moves together following the platoon leader's commands. However, the practical realization of this scheme assumes the use of reliable communications between platoon members. In this paper, the results of the measurement experiment have been presented showing the impact of the blocking cars on the signal attenuation. The tests have been carried out for the high-frequency band, i.e. for 26.555 GHz. It has been observed that on one hand side, the attenuation can reach even tens of dB for 2 or 3 blocking cars, but in some locations, the impact of a two-ray propagation mitigates the presence of obstructing vehicles.</p>	<p>WG1, VT3</p>

Day One				Day Two			Day Three				
08:30	Welcoming attendees										
<b>Rooms on TEAMS</b>	<b>Room 6.1 Plenary</b>			<b>Room 5.6 Plenary</b>			<b>Room 6.1 Plenary</b>	<b>Room 5.6 Track 1</b>	<b>Room 5.7 Track 2</b>	<b>Room 5.5 Track 3</b>	
				09:00 Election Explanation			VT2	WG2/WG3/VT4		WG1/HA1	
09:00	Plenary			09:10 YR			08:50	<i>Network &amp; Vehicular II</i>	<i>Cells &amp; Coverage</i>	50	
				09:20 VT1, VT2				77	79	24	
				09:40 VT3, VT4				35	56	40	
				10:00 HA1				62	74	Discussion VT1	
				10:10 HA2, HA3					71	HA1	
10:30	Coffee Break			10:30 Coffee Break			10:30	Coffee Break			
<b>Rooms on TEAMS</b>	<b>Room 6.1 Plenary</b>			<b>Room 5.6 Plenary</b>	<b>Room 5.5 Track 1</b>	<b>Room 5.7 Track 2</b>	<b>Room 6.1 Plenary</b>				
11:00	Keynote Speaker 1			WG1/VT4 <i>Channel models and cities</i>			Plenary				
11:00	Keynote Speaker 2			WG2 <i>PHY Layer</i>							
11:35	Election Explanation			WG3 <i>5G / small cells</i>							
12:10	GAC			2			11:00				
12:20	WG1			46			Plenary				
12:30	WG2			90							
12:40	WG3			63							
12:50	Lunch			68							
13:10	Lunch			89							
	Lunch			19							
	Lunch			Discussion WG2							
	Lunch			12:40			12:30				
<b>Rooms on TEAMS</b>	<b>Room 6.1 Plenary</b>	<b>Room 5.6 Track 1</b>	<b>Room 5.7 Track 2</b>	<b>Room 5.6 Plenary</b>	<b>Room 5.5 Track 1</b>	<b>Room 5.7 Track 2</b>					
	WG1 <i>Loss &amp; rough</i>	WG2 <i>Channel, RIS &amp; misc</i>	WG3 <i>IoT</i>	VT3 <i>IoT II</i>	WG1/VT2 <i>Channel &amp; Vehicular</i>	VT1 <i>Health</i>					
14:10	12	10	53	31	18	29					
	45	82	88	43	57	66					
	91	22	93	42	28	20					
	92	59	39	64	75	33					
	14	26	67	Discussion VT3	96	73					
15:50	Tea Break			15:40 Tea Break							
<b>Rooms on TEAMS</b>	<b>Room 6.1 Plenary</b>	<b>Room 5.6 Track 1</b>	<b>Room 5.7 Track 2</b>	<b>Room 5.6 Plenary</b>	<b>Room 5.5 Track 1</b>	<b>Room 5.7 Track 2</b>					
	WG1 <i>mmW &amp; THz</i>	WG2 <i>Loc &amp; tracking I</i>	WG3 <i>QoS</i>	WG3/VT2 <i>Network &amp; Vehicular I</i>	EMF	WG1/WG2 <i>Loc &amp; tracking II</i>					
16:20	76	87	13	65	SWG Election	52					
	38	49	69	41	16	17					
	60	8	78	95	34	48					
	4	3	54	72	83						
	37	30	Discussion WG3	Discussion VT2	84	Discussion ICAS					
18:00	SWG Election			18:00			Newsletter meeting				

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## MEETING ATTENDANCE LIST (CORE GROUP / STEERING COMMITTEE MEETING - 2022-02-07)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

Core Group - Core Group / Steering Committee Meeting (Start Date: 2022-02-07 End Date: 2022-02-10)			
Nr	Participant	Country	Signature
1	Buratti, Chiara c.buratti@unibo.it	IT	
2	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
3	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	
4	Deruyck, Margot margot.deruyck@ugent.be	BE	
5	Stuebner, Ralph ralph.stuebner@cost.eu	XI	

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**Core Group - Core Group / Steering Committee Meeting (Start Date: 2022-02-07 End Date: 2022-02-10)**

Nr	Participant	Country	Signature
6			
7			
8			
9			
10			

Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

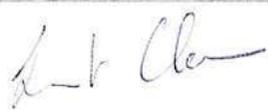
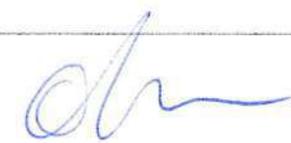
**Name + signature**

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## MEETING ATTENDANCE LIST (CORE GROUP / STEERING COMMITTEE MEETING - 2022-02-08)

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<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

Core Group - Core Group / Steering Committee Meeting (Start Date: 2022-02-07 End Date: 2022-02-10)			
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4	Deruyck, Margot margot.deruyck@ugent.be	BE	
5	Stuebner, Ralph ralph.stuebner@cost.eu	XI	

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<b>Core Group - Core Group / Steering Committee Meeting (Start Date: 2022-02-07 End Date: 2022-02-10)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
6			
7			
8			
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Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

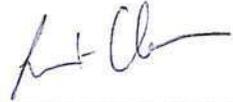
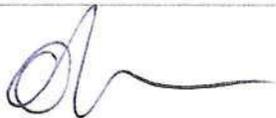
**Name + signature**

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## MEETING ATTENDANCE LIST (CORE GROUP / STEERING COMMITTEE MEETING - 2022-02-09)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

Core Group - Core Group / Steering Committee Meeting (Start Date: 2022-02-07 End Date: 2022-02-10)			
Nr	Participant	Country	Signature
1	Buratti, Chiara c.buratti@unibo.it	IT	
2	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
3	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	
4	Deruyck, Margot margot.deruyck@ugent.be	BE	
5	Stuebner, Ralph ralph.stuebner@cost.eu	XI	

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<b>Core Group - Core Group / Steering Committee Meeting (Start Date: 2022-02-07 End Date: 2022-02-10)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
6			
7			
8			
9			
10			

Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

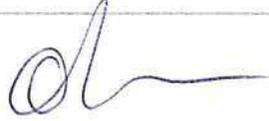
**Name + signature**

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## MEETING ATTENDANCE LIST (CORE GROUP / STEERING COMMITTEE MEETING - 2022-02-10)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

<b>Core Group - Core Group / Steering Committee Meeting (Start Date: 2022-02-07 End Date: 2022-02-10)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
1	Buratti, Chiara c.buratti@unibo.it	IT	
2	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
3	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	
4	Deruyck, Margot margot.deruyck@ugent.be	BE	
5	Stuebner, Ralph ralph.stuebner@cost.eu	XI	

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<b>Core Group - Core Group / Steering Committee Meeting (Start Date: 2022-02-07 End Date: 2022-02-10)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
6			
7			
8			
9			
10			

Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

**Name + signature**

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## MEETING ATTENDANCE LIST (JOINT HUAWEI - INTERACT WORKSHOP ON "INTELLIGENT IOT FOR 6G" - 2022-02-08)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

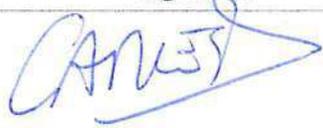
<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
1	Adeogun, Ramoni ra@es.aau.dk	DK	
2	Agram, Youssef Youssef.Agram@ulb.be	BE	
3	Agustin, Adrian adrian.agustin@cttc.cat	ES	
4	Ahmadi, Hamed hamed.ahmadi@ucd.ie	IE	
5	Ajmone Marsan, Marco marco.ajmone@imdea.org	ES	

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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
6	Alayón Glazunov, Andrés a.alayonglazunov@utwente.nl	NL	
7	Aleksiejūnas, Rimvydas rimvydas.aleksiejunas@ff.vu.lt	LT	
8	Alexandru, Marian marian.alexandru@unitbv.ro	RO	
9	Ali, Mohammad Furqan ali89@tpu.ru	RU	
10	Alvarez Merino, Carlos carlosalvarezmerino@gmail.com	ES	<i>Carlos Alvarez Merino</i> 
11	Ambroziak, Slawomir slawomir.ambroziak@pg.edu.pl	PL	<i>Slawomir Ambroziak</i> 
12	Amorosa, Lorenzo Mario lorenzomario.amorosa@unibo.it	IT	<i>Amorosa Lorenzo Mario</i>

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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
13	Anton-Haro, Carles carles.anton@cttc.es	ES	
14	ARSLAN, Hüseyin arслан.usf@gmail.com	TR	
15	Asenov, Tatjana tatjana.asenov@sonova.com	CH	
16	Assanovich, Boris bas@grsu.by	BY	
17	AYDIN, Metin Mutlu metinmutluaydin@gmail.com	TR	
18	Baena Martinez, Eduardo baenaedu@uma.es	ES	
19	Bajić, Dragana dragana.bajic@gmail.com	RS	

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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
20	Balan, Titus Constantin titus.balan@unitbv.ro	RO	
21	Barbiroli, Marina marina.barbiroli@unibo.it	IT	
22	Bas, Joan joan.bas@cttc.es	ES	
23	Bazzi, Alessandro alessandro.bazzi@unibo.it	IT	
24	Beach, Mark m.a.beach@bristol.ac.uk	UK	
25	Becker, Dennis dennis.becker@dlr.de	DE	
26	Berbakov, Lazar lazar.berbakov@pupin.rs	RS	

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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
27	Bhatia, Gurjot Singh gsbhatia@siradel.com	FR	
28	Blazek, Thomas thomas.blazek@silicon-austria.com	AT	
29	Boban, Mate mate.boban@huawei.com	DE	
30	Bota, Vasile Vasile.Bota@com.utcluj.ro	RO	
31	Boujnoui, Ahmed ahmed.boujnoui@alu.uclm.es	ES	
32	Brennan, Conor conor.brennan@dcu.ie	IE	
33	Brida, Peter peter.brida@feit.uniza.sk	SK	

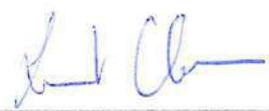
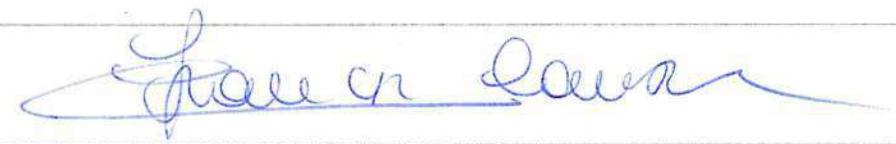
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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
34	Bronckers, Sander l.a.bronckers@tue.nl	NL	
35	buracchini, enrico enrico.buracchini@telecomitalia.it	IT	
36	Buratti, Chiara c.buratti@unibo.it	IT	
37	Burr, Alister alister.burr@york.ac.uk	UK	
38	Cantizani Estepa, Juan jce@ic.uma.es	ES	
39	Carciofi, Claudia ccarciofi@fub.it	IT	
40	Cardona, Narcis ncardona@iteam.upv.es	ES	

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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
41	Cardoso, Filipe filipe.cardoso@estsetubal.ips.pt	PT	
42	Carvalho, Afonso afonsolxp@gmail.com	PT	
43	Castelló Palacios, Sergio sercasp@iteam.upv.es	ES	
44	Cavallero, Sara s.cavallero@unibo.it	IT	<i>Sara Cavallero</i>
45	Chatzimisios, Periklis pchatzimisios@ihu.gr	EL	
46	Chatzinotas, Symeon schatzin@ieee.org	LU	
47	Chen Hu, Kun kchen@tsc.uc3m.es	ES	

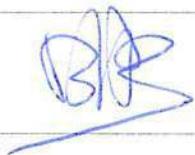
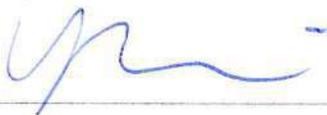
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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
48	Chiumento, Alessandro a.chiumento@utwente.nl	NL	
49	Cichoń, Krzysztof krzysztof.cichon@put.poznan.pl	PL	
50	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
51	Conrat, Jean-Marc jeanmarc.conrat@orange.com	FR	
52	Conserva, Francesca francesca.conserva@unibo.it	IT	
53	Corre, Yoann ycorre@siradel.com	FR	
54	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	

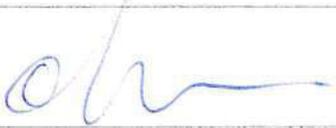
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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
55	Csatho, Botond Tamas csatho.botond@edu.bme.hu	HU	<i>Csathi Botond Tamas</i>
56	Cuozzo, Giampaolo giampaolo.cuozzo@unibo.it	IT	<i>Giampaolo Cuozzo</i>
57	Cwalina, Krzysztof kkcwalina@eti.pg.edu.pl	PL	
58	Czaniera, Daniel daniel.czaniera@tu-ilmenau.de	DE	
59	Czapiewska, Agnieszka agnieszka.czapiewska@pg.edu.pl	PL	<i>Agnieszka</i>
60	Czylwik, Andreas czylwik@nts.uni-duisburg-essen.de	DE	
61	d'Orey, Pedro pdorey@fe.up.pt	PT	

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Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)			
Nr	Participant	Country	Signature
62	Dakic, Anja anja.dakic@ait.ac.at	AT	
63	Dardari, Davide ddardari@ieee.org	IT	
64	Das, Kallol kallol.das@tno.nl	NL	
65	De Bast, Sibren debastsibren@gmail.com	BE	
66	De Beelde, Brecht Brecht.DeBeelde@UGent.be	BE	
67	Decarli, Nicolo nicolo.decarli@ieiit.cnr.it	IT	
68	Degli-Esposti, Vittorio v.degliesposti@unibo.it	IT	

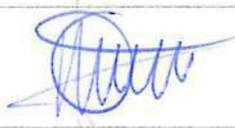
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Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)			
Nr	Participant	Country	Signature
69	del Peral-Rosado, Jose A. Jose_Antonio.del_Peral_Rosado@airbus.com	DE	
70	Del Prete, Simone simone.delprete4@unibo.it	IT	
71	Demey, Simon simon.demey@uclouvain.be	BE	
72	Deruyck, Margot margot.deruyck@ugent.be	BE	
73	Di Cicco, Nicola nicola.dicicco@polimi.it	IT	
74	Dittmann, Lars ld@com.dtu.dk	DK	
75	Dupleich, Diego diego-andres.dupleich@tu-ilmenau.de	DE	

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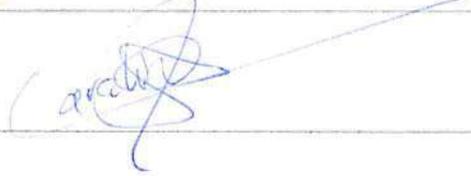
<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
76	Ebadi, Zohreh zohreh.ebadi@ulb.be	BE	
77	Ekman, Torbjörn torbjorn.ekman@ntnu.no	NO	
78	El-faitori, Saied saied.o.el-faitori@durham.ac.uk	UK	
79	Fan, Wei wfa@es.aau.dk	DK	
80	Ferreira, Manuel manuel.ferreira@estsetubal.ips.pt	PT	
81	Ferretti, Danila danila.ferretti@unibo.it	IT	
82	Fontanesi, Gianluca gianluca.fontanesi@ucdconnect.ie	IE	

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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
83	Fortes Rodríguez, Sergio sfr@ic.uma.es	ES	
84	Fuschini, Franco franco.fuschini@unibo.it	IT	
85	Gaidamaka, Yuliya ygaidamaka@mail.ru	RU	
86	Gaillot, Davy davy.gaillot@univ-lille.fr	FR	
87	Garcia Armada, Ana agarcia@tsc.uc3m.es	ES	
88	Garcia-Pardo, Concepcion cgpardo@iteam.upv.es	ES	
89	Gardasevic, Gordana gordana.gardasevic@etf.unibl.org	BA	

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**Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)**

Nr	Participant	Country	Signature
90	Ghiaasi, Golsa golsa.ghiaasi@silicon-austria.com	AT	
91	Gijon Martin, Carolina cgm@ic.uma.es	ES	
92	Gontier, Quentin quentin.gontier@ulb.be	BE	
93	González-Serrato, Nuria nuriag@ic.uma.es	ES	
94	Grazioso, Paolo pgrazioso@fub.it	IT	
95	Guerra, Anna anna.guerra@ieiit.cnr.it	IT	
96	Guerra-Gómez, Rolando rolando.guerra@upc.edu	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
97	Guidi, Francesco francesco.guidi@ieiit.cnr.it	IT	
98	Guzey, Haci Mehmet mehmet.guzey@sivas.edu.tr	TR	
99	GUZEY, Nurbanu nurbanuguzey@gmail.com	TR	
100	Haddad, Yoram haddad@g.jct.ac.il	IL	
101	Hadziaganovic, Armin armin.hadziaganovic@silicon-austria.com	AT	
102	Haneda, Katsuyuki katsuyuki.haneda@aalto.fi	FI	
103	Hannotier, Cédric cedric.hannotier@ulb.be	BE	

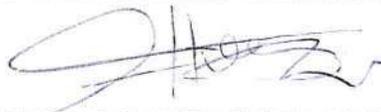
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
104	Hassan, Nina nina.hassan@tu-ilmenau.de	DE	
105	Hofer, Markus markus.hofer@ait.ac.at	AT	
106	Horvath, Balint horvath.balint@vik.bme.hu	HU	
107	Hron, Petr hronpetr@fel.cvut.cz	CZ	
108	Ioannou, Christiana cioannou@cs.ucy.ac.cy	CY	
109	Ivashina, Marianna marianna.ivashina@chalmers.se	SE	
110	Jämsä, Tommi tommi.jamsa@huawei.com	DE	

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111	Javornik, Tomaž tomaz.javornik@ijs.si	SI	
112	Jayakody Arachchilage, Dushantha Nalin Kumara nalin.jayakody@ieee.org	RU	
113	Jorge, Luísa ljorge@ipb.pt	PT	
114	Joseph, Wout wout.joseph@ugent.be	BE	
115	JUAN-LLACER, LEANDRO leandro.juan@upct.es	ES	
116	Katzis, Konstantinos K.Katzis@euc.ac.cy	CY	
117	Khatib, Emil emil@uma.es	ES	

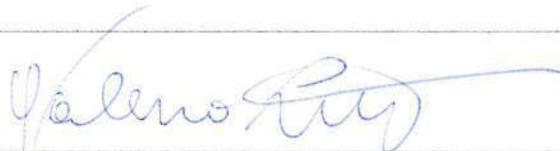
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
118	Kliks, Adrian adrian.kliks@put.poznan.pl	PL	
119	Kocan, Enis enisk@ucg.ac.me	ME	
120	Kocevska, Teodora teodora.kocevska@ijs.si	SI	
121	Kodra, Silvi silvi.kodra2@unibo.it	IT	
122	Kotterman, Wim wim.kotterman@tu-ilmenau.de	DE	
123	KOZA, Yvette yvette.koza@zte.com.cn	CN	
124	Krasniqi, Bujar bujar.krasniqi@uni-pr.edu	KV	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
125	Kulakowski, Pawel kulakowski@agh.edu.pl	PL	
126	Kürner, Thomas kuerner@ifn.ing.tu-bs.de	DE	
127	Kyösti, Pekka pekka.kyosti@keysight.com	FI	
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130	Lehne, Per Hjalmar per-hjalmar.lehne@telenor.com	NO	
131	Li, Jian calvin.li@huawei.com	CN	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
132	Li, Mengting mengli@es.aau.dk	DK	
133	li, wenbin liwenbin@bjtu.edu.cn	CN	
134	Lieti, Valerio valerio.lieti@gmail.com	IT	
135	Linsalata, Francesco francesco.linsalata@polimi.it	IT	
136	Liotou, Eirini eirini.liotou@iccs.gr	EL	
137	Lipovac, Adriana adriana.lipovac@unidu.hr	HR	
138	Longhi, Nicolo nicolo.longhi@unibo.it	IT	

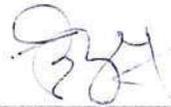
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
139	Lyu, Yejian yely@es.aau.dk	DK	
140	Magarini, Maurizio maurizio.magarini@polimi.it	IT	
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142	Maret, Yann yann.maret@hefr.ch	CH	
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144	Mbugua, Allan Wainaina allan.mbugua@huawei.com	DE	
145	Mecklenbrauker, Christoph cfm@tuwien.ac.at	AT	

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146	Meo, Michela michela.meo@polito.it	IT	
147	Merenda, Massimo massimo.merenda@ait.ac.at	AT	
148	Miao, Yang y.miao@utwente.nl	NL	
149	Mignardi, Silvia silvia.mignardi@unibo.it	IT	
150	Mihaljević, Ante ante.mihaljevic@unidu.hr	HR	
151	Mikhaylov, Konstantin konstantin.mikhaylov@oulu.fi	FI	
152	Mlinar, Tomi tomi.mlinar@fe.uni-lj.si	SI	

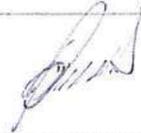
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153	Molina-Garcia-Pardo, Jose-Maria josemaria.molina@upct.es	ES	
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156	Narandzic, Milan orange@uns.ac.rs	RS	
157	Navarro, Andres anavarro@icesi.edu.co	CO	
158	Nguyen, Sinh sinh.l.nguyen@ericsson.com	SE	
159	Orozco, Luis luis.orozco@uclm.es	ES	

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160	Oujezsky, Vaclav oujezsky@fi.muni.cz	CZ	
161	Ozdemir, Mehmet Kemal mkozdemir@medipol.edu.tr	TR	
162	Özkaynak, Fatih ozkaynak@firat.edu.tr	TR	
163	Pamp, Jörg pamp@ihf.rwth-aachen.de	DE	
164	Papaj, Ján jan.papaj@tuke.sk	SK	
165	Pasic, Faruk faruk.pasic@tuwien.ac.at	AT	
166	Pasolini, Gianni gianni.pasolini@unibo.it	IT	

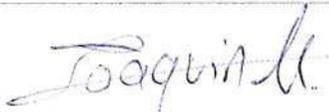
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
167	Patrício, Sofia sofiaduartepatr@gmail.com	PT	
168	Pedersen, Troels troels@es.aau.dk	DK	
169	Pejanovic-Djurisic, Milica milica@ucg.ac.me	ME	
170	Peñaherrera, Oswaldo sppulla@ic.uma.es	ES	
171	Petrini, Valeria vpetrini@fub.it	IT	
172	Polak, Ladislav polakl@feec.vutbr.cz	CZ	
173	Quitin, Francois fquitin@ulb.be	BE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
174	Radovic, Danilo danilo.radovic@tuwien.ac.at	AT	
175	Rainer, Benjamin benjamin.rainer@ait.ac.at	AT	
176	Rajchowski, Piotr piorajch@eti.pg.edu.pl	PL	
177	Raspopoulos, Marios mraspopoulos@gmail.com	CY	
178	Rizzo, Gianluca gianluca.antonio.rizzo@gmail.com	CH	
179	Rudd, Richard richard.rudd@plumconsulting.co.uk	UK	
180	Ruiz Boqué, Silvia silvia.ruiz@upc.edu	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
181	Saito, Kentaro saitouken@ide.titech.ac.jp	JP	
182	Salous, Sana sana.salous@durham.ac.uk	UK	
183	Samouylov, Konstantin ksam@sci.pfu.edu.ru	RU	
184	Sanchez Martin, Joaquin M. jmsanchez@ic.uma.es	ES	
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186	Sarcone Grande, Nicol nicol.sarcone96@gmail.com	IT	
187	sarrazin, Julien julien.sarrazin@upmc.fr	FR	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
188	Sayrafian, Kamran kamran.sayrafian@nist.gov	US	
189	Schiffarth, Anna-Malin schiffarth@ihf.rwth-aachen.de	DE	
190	Schneider, Christian christian.schneider@tu-ilmenau.de	DE	
191	Schumacher, Laurent laurent.schumacher@unamur.be	BE	
192	Schwarz, Stefan stefan.schwarz@tuwien.ac.at	AT	
193	Seco-Granados, Gonzalo gonzalo.seco@uab.cat	ES	
194	Siriwardhana, Yushan yushan.siriwardhana@oulu.fi	FI	

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195	Skachek, Vitaly vitaly.skachek@gmail.com	EE	
196	Skocaj, Marco marco.skocaj@unibo.it	IT	
197	Skrivervik, Anja anja.skrivervik@epfl.ch	CH	
198	Sommerkorn, Gerd som@tu-ilmenau.de	DE	
199	Spampinato, Leonardo leonardo.spampinato@studio.unibo.it	IT	
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201	Steinboeck, Gerhard Gerhard.steinboeck@ericsson.com	SE	

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202	Struyf, Amélia amelia.struyf@ulb.be	BE	
203	Stuebner, Ralph ralph.stuebner@cost.eu	XI	
204	Sykora, Jan jan.sykora@fel.cvut.cz	CZ	
205	Szini, Istvan istvanszini@gmail.com	DK	
206	Takada, Jun-ichi takada@ide.titech.ac.jp	JP	
207	Taramit, Hamid hamid.taramit@alu.uclm.es	ES	
208	Tarozzi, Alessia alessia.tarozzi@studio.unibo.it	IT	

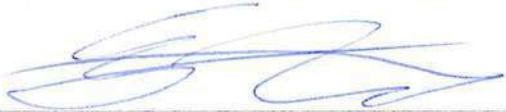
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
209	Tarrias, Antonio atm@ic.uma.es	ES	
210	Teixeira, Emanuel etsbg@hotmail.com	PT	
211	TESFAY, Angesom angesom.tesfay@imt-nord-europe.fr	FR	
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213	Thomä, Reiner reiner.thomae@tu-ilmenau.de	DE	
214	Todisco, Vittorio vittorio.todisco@unibo.it	IT	
215	Torrìco, Saul storrico@comsearch.com	US	

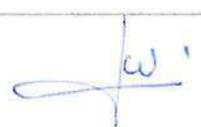
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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
216	Torun, Buket torunbuket@gmail.com	IT	
217	Tufvesson, Fredrik fredrik.tufvesson@eit.lth.se	SE	
218	Ulmschneider, Markus markus.ulmschneider@dlr.de	DE	
219	Unterhuber, Paul paul.unterhuber@dlr.de	DE	
220	Valbonesi, Simona svalbonesi@fub.it	IT	
221	Vallero, Greta greta.vallero@polito.it	IT	
222	Vassiliou, Vasos vasosv@cs.ucy.ac.cy	CY	

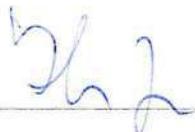
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Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)			
Nr	Participant	Country	Signature
223	VELEZ, Fernando José fjv@ubi.pt	PT	
224	Verdone, Roberto roberto.verdone@unibo.it	IT	
225	Villemaud, Guillaume guillaume.villemaud@insa-lyon.fr	FR	
226	Vitucci, Enrico Maria enricomaria.vitucci@unibo.it	IT	
227	Vouyioukas, Demosthenes dvouyiou@aegean.gr	EL	
228	Vukobratovic, Dejan dejanv@uns.ac.rs	RS	
229	Wagen, Jean Frederic jean-frederic.wagen@hefr.ch	CH	

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Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)			
Nr	Participant	Country	Signature
230	Walter, Michael m.walter@dlr.de	DE	
231	Wasilewska, Małgorzata malgorzata.wasilewska@put.poznan.pl	PL	
232	Wiame, Charles charles.wiame@uclouvain.be	BE	
233	Wilding, Thomas thomas.wilding@tugraz.at	AT	
234	Witrisal, Klaus witrisal@tugraz.at	AT	
235	Xie, Pengxiang 20120137@bjtu.edu.cn	CN	
236	Xiping, Wang 16211133@bjtu.edu.cn	CN	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
237	Yan, Dong yandong@bjtu.edu.cn	CN	
238	Yilmaz, Mehmet Fatih mehmetfatih.yilmaz@omu.edu.tr	TR	
239	yu, ziming yuziming@huawei.com	CN	
240	Zabini, Flavio flavio.zabini2@unibo.it	IT	
241	Zammit, Joseph A. joseph.a.zammit@mcast.edu.mt	MT	
242	Zelenbaba, Stefan stefan.zelenbaba@ait.ac.at	AT	
243	Zentner, Radovan radovan.zentner@fer.hr	HR	

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<b>Workshop/Conference - Joint Huawei - INTERACT Workshop on "Intelligent IoT for 6G" (Start Date: 2022-02-08 End Date: 2022-02-08)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
244	Zhang, Haibin haibin.zhang@tno.nl	NL	
245	Zhang, Siwei siwei.zhang@dlr.de	DE	
246	Zhu, Luoyan Zhu_Luoyan@outlook.com	CN	
247	Zugno, Tommaso tommaso.zugno@huawei.com	DE	
248			
249			
250			

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
251			
252			

Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

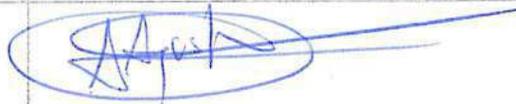
**Name + signature**

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## MEETING ATTENDANCE LIST (MANAGEMENT COMMITTEE MEETING - 2022-02-09)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
1	Adeogun, Ramoni ra@es.aau.dk	DK	
2	Agram, Youssef Youssef.Agram@ulb.be	BE	
3	Agustin, Adrian adrian.agustin@cttc.cat	ES	
4	Ahmadi, Hamed hamed.ahmadi@ucd.ie	IE	
5	Ajmone Marsan, Marco marco.ajmone@imdea.org	ES	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
6	Alayón Glazunov, Andrés a.alayonglazunov@utwente.nl	NL	
7	Aleksiejūnas, Rimvydas rimvydas.aleksiejunas@ff.vu.lt	LT	
8	Alexandru, Marian marian.alexandru@unitbv.ro	RO	
9	Ali, Mohammad Furqan ali89@tpu.ru	RU	
10	Alvarez Merino, Carlos carlosalvarezmerino@gmail.com	ES	<i>Carlos Alvarez Merino</i> 
11	Ambroziak, Slawomir slawomir.ambroziak@pg.edu.pl	PL	<i>Slawomir J. Ambroziak</i> 
12	Amorosa, Lorenzo Mario lorenzomario.amorosa@unibo.it	IT	<i>Amorosa Lorenzo Mario</i>

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<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
13	Anton-Haro, Carles carles.anton@cttc.es	ES	
14	ARSLAN, Hüseyin arslan.usf@gmail.com	TR	
15	Asenov, Tatjana tatjana.asenov@sonova.com	CH	
16	Assanovich, Boris bas@grsu.by	BY	
17	AYDIN, Metin Mutlu metinmutluaydin@gmail.com	TR	
18	Baena Martínez, Eduardo baenaedu@uma.es	ES	
19	Bajić, Dragana dragana.bajic@gmail.com	RS	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
20	Balan, Titus Constantin titus.balan@unitbv.ro	RO	
21	Barbiroli, Marina marina.barbiroli@unibo.it	IT	
22	Bas, Joan joan.bas@cttc.es	ES	
23	Bazzi, Alessandro alessandro.bazzi@unibo.it	IT	
24	Beach, Mark m.a.beach@bristol.ac.uk	UK	
25	Becker, Dennis dennis.becker@dlr.de	DE	
26	Berbakov, Lazar lazar.berbakov@pupin.rs	RS	

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<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
27	Bhatia, Gurjot Singh gsbhatia@siradel.com	FR	
28	Blazek, Thomas thomas.blazek@silicon-austria.com	AT	
29	Boban, Mate mate.boban@huawei.com	DE	
30	Bota, Vasile Vasile.Bota@com.utcluj.ro	RO	
31	Boujnoui, Ahmed ahmed.boujnoui@alu.uclm.es	ES	
32	Brennan, Conor conor.brennan@dcu.ie	IE	
33	Brida, Peter peter.brida@feit.uniza.sk	SK	

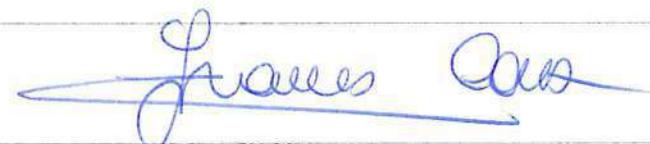
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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
34	Bronckers, Sander l.a.bronckers@tue.nl	NL	
35	buracchini, enrico enrico.buracchini@telecomitalia.it	IT	
36	Buratti, Chiara c.buratti@unibo.it	IT	
37	Burr, Alister alister.burr@york.ac.uk	UK	
38	Cantizani Estepa, Juan jce@ic.uma.es	ES	
39	Carciofi, Claudia ccarciofi@fub.it	IT	
40	Cardona, Narcis ncardona@iteam.upv.es	ES	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
41	Cardoso, Filipe filipe.cardoso@estsetubal.ips.pt	PT	
42	Carvalho, Afonso afonsolxp@gmail.com	PT	
43	Castelló Palacios, Sergio sercasp@iteam.upv.es	ES	
44	Cavallero, Sara s.cavallero@unibo.it	IT	<i>Sara Cavallero</i>
45	Chatzimisios, Periklis pchatzimisios@ihu.gr	EL	
46	Chatzinotas, Symeon schatzin@ieee.org	LU	
47	Chen Hu, Kun kchen@tsc.uc3m.es	ES	<i>K Chen</i>

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<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
48	Chiumento, Alessandro a.chiumento@utwente.nl	NL	
49	Cichoń, Krzysztof krzysztof.cichon@put.poznan.pl	PL	
50	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
51	Conrat, Jean-Marc jeanmarc.conrat@orange.com	FR	
52	Conserva, Francesca francesca.conserva@unibo.it	IT	
53	Corre, Yoann ycorre@siradel.com	FR	
54	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	

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**Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
55	Csatho, Botond Tamas csatho.botond@edu.bme.hu	HU	<i>Csatho Botond Tamas</i>
56	Cuozzo, Giampaolo giampaolo.cuozzo@unibo.it	IT	<i>Giampaolo Cuozzo</i>
57	Cwalina, Krzysztof kkcwalina@eti.pg.edu.pl	PL	
58	Czaniera, Daniel daniel.czaniera@tu-ilmenau.de	DE	
59	Czapiewska, Agnieszka agnieszka.czapiewska@pg.edu.pl	PL	<i>Agnieszka</i>
60	Czylwik, Andreas czylik@nts.uni-duisburg-essen.de	DE	
61	d'Orey, Pedro pdorey@fe.up.pt	PT	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
62	Dakic, Anja anja.dakic@ait.ac.at	AT	
63	Dardari, Davide ddardari@ieee.org	IT	
64	Das, Kallol kallol.das@tho.nl	NL	
65	De Bast, Sibren debastsibren@gmail.com	BE	
66	De Beelde, Brecht Brecht.DeBeelde@UGent.be	BE	
67	Decarli, Nicolo nicolo.decarli@ieiit.cnr.it	IT	
68	Degli-Esposti, Vittorio v.degliesposti@unibo.it	IT	

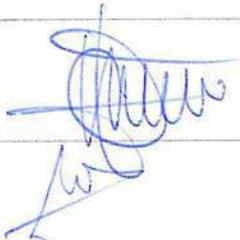
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
69	del Peral-Rosado, Jose A. Jose_Antonio.del_Peral_Rosado@airbus.com	DE	
70	Del Prete, Simone simone.delprete4@unibo.it	IT	
71	Demey, Simon simon.demey@uclouvain.be	BE	
72	Deruyck, Margot margot.deruyck@ugent.be	BE	
73	Di Cicco, Nicola nicola.dicicco@polimi.it	IT	
74	Dittmann, Lars ld@com.dtu.dk	DK	
75	Dupleich, Diego diego-andres.dupleich@tu-ilmenau.de	DE	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
76	Ebadi, Zohreh zohreh.ebadi@ulb.be	BE	
77	Ekman, Torbjörn torbjorn.ekman@ntnu.no	NO	
78	El-faitori, Saied saied.o.el-faitori@durham.ac.uk	UK	
79	Fan, Wei wfa@es.aau.dk	DK	
80	Ferreira, Manuel manuel.ferreira@estsetubal.ips.pt	PT	
81	Ferretti, Danila danila.ferretti@unibo.it	IT	
82	Fontanesi, Gianluca gianluca.fontanesi@ucdconnect.ie	IE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
83	Fortes Rodríguez, Sergio sfr@ic.uma.es	ES	
84	Fuschini, Franco franco.fuschini@unibo.it	IT	
85	Gaidamaka, Yuliya ygaidamaka@mail.ru	RU	
86	Gaillot, Davy davy.gaillot@univ-lille.fr	FR	
87	Garcia Armada, Ana agarcia@tsc.uc3m.es	ES	
88	Garcia-Pardo, Concepcion cgpardo@iteam.upv.es	ES	
89	Gardasevic, Gordana gordana.gardasevic@etf.unibl.org	BA	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
90	Ghiaasi, Golsa golsa.ghiaasi@silicon-austria.com	AT	
91	Gijon Martin, Carolina cgm@ic.uma.es	ES	
92	Gontier, Quentin quentin.gontier@ulb.be	BE	
93	González-Serrato, Nuria nuriag@ic.uma.es	ES	
94	Grazioso, Paolo pgrazioso@fub.it	IT	
95	Guerra, Anna anna.guerra@ieiit.cnr.it	IT	
96	Guerra-Gómez, Rolando rolando.guerra@upc.edu	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
97	Guidi, Francesco francesco.guidi@ieiit.cnr.it	IT	
98	Guzey, Haci Mehmet mehmet.guzey@sivas.edu.tr	TR	
99	GUZEY, Nurbanu nurbanuguzey@gmail.com	TR	
100	Haddad, Yoram haddad@g.jct.ac.il	IL	
101	Hadziaganovic, Armin armin.hadziaganovic@silicon-austria.com	AT	
102	Haneda, Katsuyuki katsuyuki.haneda@aalto.fi	FI	
103	Hannotier, Cédric cedric.hannotier@ulb.be	BE	

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**Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

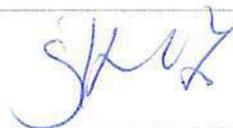
Nr	Participant	Country	Signature
104	Hassan, Nina nina.hassan@tu-ilmenau.de	DE	
105	Hofer, Markus markus.hofer@ait.ac.at	AT	
106	Horvath, Balint horvath.balint@vik.bme.hu	HU	
107	Hron, Petr hronpetr@fel.cvut.cz	CZ	
108	Ioannou, Christiana cioannou@cs.ucy.ac.cy	CY	
109	Ivashina, Marianna marianna.ivashina@chalmers.se	SE	
110	Jämsä, Tommi tommi.jamsa@huawei.com	DE	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
111	Javornik, Tomaž tomaz.javornik@ijs.si	SI	
112	Jayakody Arachchilage, Dushantha Nalin Kumara nalin.jayakody@ieee.org	RU	
113	Jorge, Luísa ljorge@ipb.pt	PT	
114	Joseph, Wout wout.joseph@ugent.be	BE	
115	JUAN-LLACER, LEANDRO leandro.juan@upct.es	ES	
116	Katzis, Konstantinos K.Katzis@euc.ac.cy	CY	
117	Khatib, Emil emil@uma.es	ES	

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**Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
118	Kliks, Adrian adrian.kliks@put.poznan.pl	PL	
119	Kocan, Enis enisk@ucg.ac.me	ME	
120	Kocevska, Teodora teodora.kocevska@ijs.si	SI	
121	Kodra, Silvi silvi.kodra2@unibo.it	IT	
122	Kotterman, Wim wim.kotterman@tu-ilmenau.de	DE	
123	Krasniqi, Bujar bujar.krasniqi@uni-pr.edu	KV	
124	Kulakowski, Pawel kulakowski@agh.edu.pl	PL	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
125	Kürner, Thomas kuerner@ifn.ing.tu-bs.de	DE	
126	Kyösti, Pekka pekka.kyosti@keysight.com	FI	
127	Lager, Ioan Ernest i.e.lager@tudelft.nl	NL	
128	Larsson, Christina christina.c.larsson@ericsson.com	SE	
129	Lehne, Per Hjalmar per-hjalmar.lehne@telenor.com	NO	
130	Li, Mengting mengli@es.aau.dk	DK	
131	Lieti, Valerio valerio.lieti@gmail.com	IT	

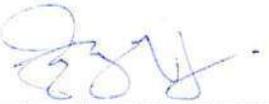
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<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
132	Linsalata, Francesco francesco.linsalata@polimi.it	IT	
133	Liotou, Eirini eirini.liotou@iccs.gr	EL	
134	Lipovac, Adriana adriana.lipovac@unidu.hr	HR	
135	Longhi, Nicolo nicolo.longhi@unibo.it	IT	
136	Lyu, Yejian yely@es.aau.dk	DK	
137	Magarini, Maurizio maurizio.magarini@polimi.it	IT	
138	Mallik, Mohammed mohammed.mallik.etu@univ-lille.fr	FR	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
139	Maret, Yann yann.maret@hefr.ch	CH	
140	Marini, Riccardo r.marini@unibo.it	IT	
141	Mbugua, Allan Wainaina allan.mbugua@huawei.com	DE	
142	Mecklenbrauker, Christoph cfm@tuwien.ac.at	AT	
143	Meo, Michela michela.meo@polito.it	IT	
144	Merenda, Massimo massimo.merenda@ait.ac.at	AT	
145	Miao, Yang y.miao@utwente.nl	NL	

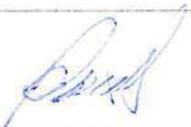
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
146	Mignardi, Silvia silvia.mignardi@unibo.it	IT	
147	Mihaljević, Ante ante.mihaljevic@unidu.hr	HR	
148	Mikhaylov, Konstantin konstantin.mikhaylov@oulu.fi	FI	
149	Mlinar, Tomi tomi.mlinar@fe.uni-lj.si	SI	
150	Molina-Garcia-Pardo, Jose-Maria josemaria.molina@upct.es	ES	
151	Muzaffar, Raheeb raheeb.muzaffar@silicon-austria.com	AT	
152	Myint, Saw James saw-james.myint@tu-ilmenau.de	DE	

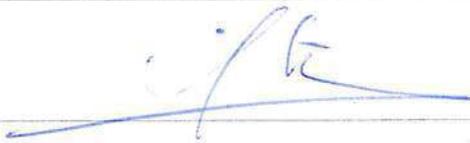
This information is collected for the purpose of checking eligibility for reimbursement of your expenses under the COST Vademecum rules (article 6.1.b of the GDPR) and, when the meeting takes place in COST premises, for safety purposes in compliance with our legal obligations under Belgian law (article 6.1.c of the GDPR). It will be kept for the duration of COST audit obligations as mentioned in the privacy notice for e-COST. It won't be transferred to any third party except in case of use for safety purposes where it will be transferred to the landlord of the premises and emergency services.

<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
153	Narandzic, Milan orange@uns.ac.rs	RS	
154	Nguyen, Sinh sinh.l.nguyen@ericsson.com	SE	
155	Orozco, Luis luis.orozco@uclm.es	ES	
156	Oujezsky, Vaclav oujezsky@fi.muni.cz	CZ	
157	Ozdemir, Mehmet Kemal mkozdemir@medipol.edu.tr	TR	
158	Özkaynak, Fatih ozkaynak@firat.edu.tr	TR	
159	Pamp, Jörg pamp@ihf.rwth-aachen.de	DE	

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<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
160	Papaj, Ján jan.papaj@tuke.sk	SK	
161	Pasic, Faruk faruk.pasic@tuwien.ac.at	AT	
162	Pasolini, Gianni gianni.pasolini@unibo.it	IT	
163	Patrício, Sofia sofiaduartepatr@gmail.com	PT	
164	Pedersen, Troels troels@es.aau.dk	DK	
165	Pejanovic-Djurisic, Milica milica@ucg.ac.me	ME	
166	Peñaherrera, Oswaldo sppulla@ic.uma.es	ES	

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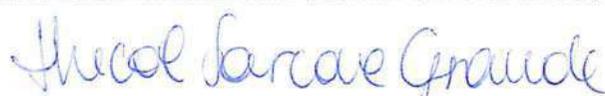
Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
167	Petrini, Valeria vpetrini@fub.it	IT	
168	Polak, Ladislav polakl@feec.vutbr.cz	CZ	
169	Quitin, Francois fquitin@ulb.be	BE	
170	Radovic, Danilo danilo.radovic@tuwien.ac.at	AT	
171	Rainer, Benjamin benjamin.rainer@ait.ac.at	AT	
172	Rajchowski, Piotr piorajch@eti.pg.edu.pl	PL	
173	Raspopoulos, Marios mraspopoulos@gmail.com	CY	

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**Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
174	Rizzo, Gianluca gianluca.antonio.rizzo@gmail.com	CH	
175	Rudd, Richard richard.rudd@plumconsulting.co.uk	UK	
176	Ruiz Boqué, Silvia silvia.ruiz@upc.edu	ES	
177	Salous, Sana sana.salous@durham.ac.uk	UK	
178	Samouylov, Konstantin ksam@sci.pfu.edu.ru	RU	
179	Sanchez Martin, Joaquin M. jmsanchez@ic.uma.es	ES	
180	SANDIKKAYA, Mehmet Tahir sandikkaya@itu.edu.tr	TR	

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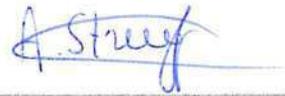
Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
181	Sarcone Grande, Nicol nicol.sarcone96@gmail.com	IT	
182	sarrazin, Julien julien.sarrazin@upmc.fr	FR	
183	Schiffarth, Anna-Malin schiffarth@ihf.rwth-aachen.de	DE	
184	Schneider, Christian christian.schneider@tu-ilmenau.de	DE	
185	Schumacher, Laurent laurent.schumacher@unamur.be	BE	
186	Schwarz, Stefan stefan.schwarz@tuwien.ac.at	AT	
187	Seco-Granados, Gonzalo gonzalo.seco@uab.cat	ES	

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**Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
188	Siriwardhana, Yushan yushan.siriwardhana@oulu.fi	FI	
189	Skachek, Vitaly vitaly.skachek@gmail.com	EE	
190	Skocaj, Marco marco.skocaj@unibo.it	IT	
191	Skrivervik, Anja anja.skrivervik@epfl.ch	CH	
192	Sommerkorn, Gerd som@tu-ilmenau.de	DE	
193	Spampinato, Leonardo leonardo.spampinato@studio.unibo.it	IT	
194	Sroka, Pawel pawel.sroka@put.poznan.pl	PL	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
195	Steinboeck, Gerhard Gerhard.steinboeck@ericsson.com	SE	
196	Struyf, Amélia amelia.struyf@ulb.be	BE	
197	Stuebner, Ralph ralph.stuebner@cost.eu	XI	
198	Sykora, Jan jan.sykora@fel.cvut.cz	CZ	
199	Szini, Istvan istvanszini@gmail.com	DK	
200	Taramit, Hamid hamid.taramit@alu.uclm.es	ES	
201	Tarozzi, Alessia alessia.tarozzi@studio.unibo.it	IT	

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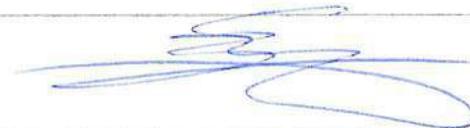
**Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
202	Tarrias, Antonio atm@ic.uma.es	ES	
203	Teixeira, Emanuel etsbg@hotmail.com	PT	
204	TESFAY, Angesom angesom.tesfay@imt-nord-europe.fr	FR	
205	Thielecke, Lennart thielecke@ifn.ing.tu-bs.de	DE	
206	Thomä, Reiner reiner.thomae@tu-ilmenau.de	DE	
207	Todisco, Vittorio vittorio.todisco@unibo.it	IT	
208	Torun, Buket torunbuket@gmail.com	IT	

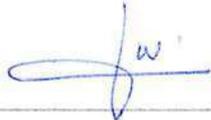
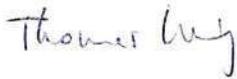
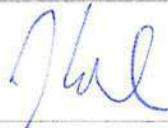
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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
209	Tufvesson, Fredrik fredrik.tufvesson@eit.lth.se	SE	
210	Ulmschneider, Markus markus.ulmschneider@dlr.de	DE	
211	Unterhuber, Paul paul.unterhuber@dlr.de	DE	
212	Valbonesi, Simona svalbonesi@fub.it	IT	
213	Vallero, Greta greta.vallero@polito.it	IT	
214	Vassiliou, Vasos vasosv@cs.ucy.ac.cy	CY	
215	VELEZ, Fernando José fjv@ubi.pt	PT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
216	Verdone, Roberto roberto.verdone@unibo.it	IT	
217	Villemaud, Guillaume guillaume.villemaud@insa-lyon.fr	FR	
218	Vitucci, Enrico Maria enricomaria.vitucci@unibo.it	IT	
219	Vouyioukas, Demosthenes dvouyiou@aegean.gr	EL	
220	Vukobratovic, Dejan dejanv@uns.ac.rs	RS	
221	Wagen, Jean Frederic jean-frederic.wagen@hefr.ch	CH	
222	Walter, Michael m.walter@dlr.de	DE	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
223	Wasilewska, Małgorzata malgorzata.wasilewska@put.poznan.pl	PL	
224	Wiame, Charles charles.wiame@uclouvain.be	BE	
225	Wilding, Thomas thomas.wilding@tugraz.at	AT	
226	Witrisal, Klaus witrisal@tugraz.at	AT	
227	Yılmaz, Mehmet Fatih mehmetfatih.yilmaz@omu.edu.tr	TR	
228	Zabini, Flavio flavio.zabini2@unibo.it	IT	
229	Zammit, Joseph A. joseph.a.zammit@mcast.edu.mt	MT	

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Nr	Participant	Country	Signature
230	Zelenbaba, Stefan stefan.zelenbaba@ait.ac.at	AT	
231	Zentner, Radovan radovan.zentner@fer.hr	HR	
232	Zhang, Haibin haibin.zhang@tno.nl	NL	
233	Zhang, Siwei siwei.zhang@dlr.de	DE	
234	Zugno, Tommaso tommaso.zugno@huawei.com	DE	
235	<i>Rumney, Moray</i> <i>moray@rumneytelecom.uk</i>	<i>UK</i>	
236			

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
237			
238			
239			

Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

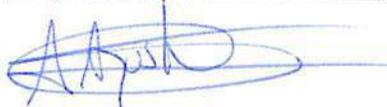
**Name + signature**

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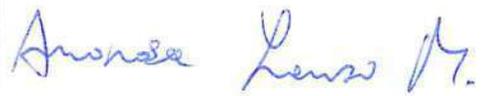
## MEETING ATTENDANCE LIST (MANAGEMENT COMMITTEE MEETING - 2022-02-10)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

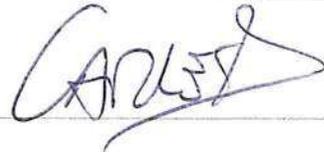
<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
1	Adeogun, Ramoni ra@es.aau.dk	DK	
2	Agram, Youssef Youssef.Agram@ulb.be	BE	
3	Agustin, Adrian adrian.agustin@cttc.cat	ES	
4	Ahmadi, Hamed hamed.ahmadi@ucd.ie	IE	
5	Ajmone Marsan, Marco marco.ajmone@imdea.org	ES	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
6	Alayón Glazunov, Andrés a.alayonglazunov@utwente.nl	NL	
7	Aleksiejūnas, Rimvydas rimvydas.aleksiejunas@ff.vu.lt	LT	
8	Alexandru, Marian marian.alexandru@unitbv.ro	RO	
9	Ali, Mohammad Furqan ali89@tpu.ru	RU	
10	Alvarez Merino, Carlos carlosalvarezmerino@gmail.com	ES	
11	Ambroziak, Slawomir slawomir.ambroziak@pg.edu.pl	PL	
12	Amorosa, Lorenzo Mario lorenzomario.amorosa@unibo.it	IT	

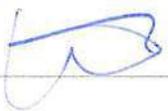
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
13	Anton-Haro, Carles carles.anton@cttc.es	ES	
14	ARSLAN, Hüseyin arслан.usf@gmail.com	TR	
15	Asenov, Tatjana tatjana.asenov@sonova.com	CH	
16	Assanovich, Boris bas@grsu.by	BY	
17	AYDIN, Metin Mutlu metinmutluaydin@gmail.com	TR	
18	Baena Martinez, Eduardo baenaedu@uma.es	ES	
19	Bajić, Dragana dragana.bajic@gmail.com	RS	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
20	Balan, Titus Constantin titus.balan@unitbv.ro	RO	
21	Barbiroli, Marina marina.barbiroli@unibo.it	IT	<i>Marina Barbiroli</i>
22	Bas, Joan joan.bas@cttc.es	ES	
23	Bazzi, Alessandro alessandro.bazzi@unibo.it	IT	
24	Beach, Mark m.a.beach@bristol.ac.uk	UK	
25	Becker, Dennis dennis.becker@dlr.de	DE	
26	Berbakov, Lazar lazar.berbakov@pupin.rs	RS	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
27	Bhatia, Gurjot Singh gsbhatia@siradel.com	FR	
28	Blazek, Thomas thomas.blazek@silicon-austria.com	AT	
29	Boban, Mate mate.boban@huawei.com	DE	
30	Bota, Vasile Vasile.Bota@com.utcluj.ro	RO	
31	Boujnoui, Ahmed ahmed.boujnoui@alu.uclm.es	ES	
32	Brennan, Conor conor.brennan@dcu.ie	IE	
33	Brida, Peter peter.brida@feit.uniza.sk	SK	

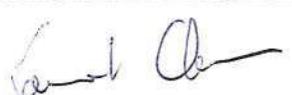
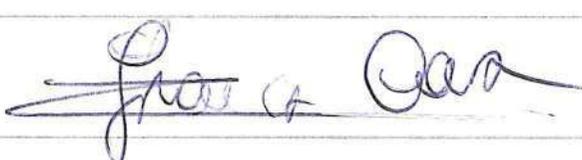
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
34	Bronckers, Sander l.a.bronckers@tue.nl	NL	
35	buracchini, enrico enrico.buracchini@telecomitalia.it	IT	
36	Buratti, Chiara c.buratti@unibo.it	IT	
37	Burr, Alister alister.burr@york.ac.uk	UK	
38	Cantizani Estepa, Juan jce@ic.uma.es	ES	
39	Carciofi, Claudia ccarciofi@fub.it	IT	
40	Cardona, Narcis ncardona@iteam.upv.es	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
41	Cardoso, Filipe filipe.cardoso@estsetubal.ips.pt	PT	
42	Carvalho, Afonso afonsolxp@gmail.com	PT	
43	Castelló Palacios, Sergio sercasp@iteam.upv.es	ES	
44	Cavallero, Sara s.cavallero@unibo.it	IT	<i>Sara Cavallero</i>
45	Chatzimisios, Periklis pchatzimisios@ihu.gr	EL	
46	Chatzinotas, Symeon schatzin@ieee.org	LU	
47	Chen Hu, Kun kchen@tsc.uc3m.es	ES	<i>K Chen</i>

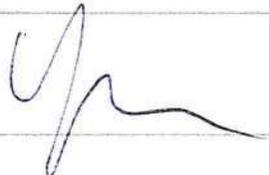
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Nr	Participant	Country	Signature
48	Chiumento, Alessandro a.chiumento@utwente.nl	NL	
49	Cichoń, Krzysztof krzysztof.cichon@put.poznan.pl	PL	
50	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
51	Conrat, Jean-Marc jeanmarc.conrat@orange.com	FR	
52	Conserva, Francesca francesca.conserva@unibo.it	IT	
53	Corre, Yoann ycorre@siradel.com	FR	
54	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	

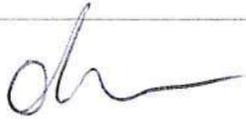
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
55	Csatho, Botond Tamas csatho.botond@edu.bme.hu	HU	<i>Csathi Botond Tamas</i>
56	Cuozzo, Giampaolo giampaolo.cuozzo@unibo.it	IT	<i>Giampaolo Cuozzo</i>
57	Cwalina, Krzysztof kkcwalina@eti.pg.edu.pl	PL	
58	Czaniera, Daniel daniel.czaniera@tu-ilmenau.de	DE	
59	Czapiewska, Agnieszka agnieszka.czapiewska@pg.edu.pl	PL	<i>Agnieszka</i>
60	Czylwik, Andreas czylwik@nts.uni-duisburg-essen.de	DE	
61	d'Orey, Pedro pdorey@fe.up.pt	PT	

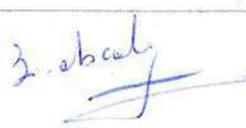
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
62	Dakic, Anja anja.dakic@ait.ac.at	AT	
63	Dardari, Davide ddardari@ieee.org	IT	
64	Das, Kallol kallol.das@tno.nl	NL	
65	De Bast, Sibren debastsibren@gmail.com	BE	
66	De Beelde, Brecht Brecht.DeBeelde@UGent.be	BE	
67	Decarli, Nicolò nicolo.decarli@ieiit.cnr.it	IT	
68	Degli-Esposti, Vittorio v.degliesposti@unibo.it	IT	

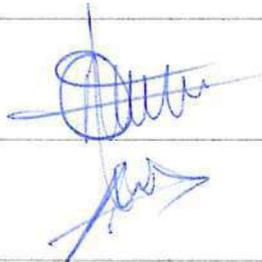
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
69	del Peral-Rosado, Jose A. Jose_Antonio.del_Peral_Rosado@airbus.com	DE	
70	Del Prete, Simone simone.delprete4@unibo.it	IT	
71	Demey, Simon simon.demey@uclouvain.be	BE	
72	Deruyck, Margot margot.deruyck@ugent.be	BE	
73	Di Cicco, Nicola nicola.dicicco@polimi.it	IT	
74	Dittmann, Lars ld@com.dtu.dk	DK	
75	Dupleich, Diego diego-andres.dupleich@tu-ilmenau.de	DE	

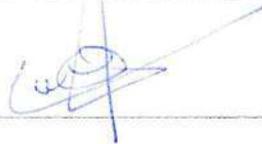
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
76	Ebadi, Zohreh zohreh.ebadi@ulb.be	BE	
77	Ekman, Torbjörn torbjorn.ekman@ntnu.no	NO	
78	El-faitori, Saied saied.o.el-faitori@durham.ac.uk	UK	
79	Fan, Wei wfa@es.aau.dk	DK	
80	Ferreira, Manuel manuel.ferreira@estsetubal.ips.pt	PT	
81	Ferretti, Danila danila.ferretti@unibo.it	IT	
82	Fontanesi, Gianluca gianluca.fontanesi@ucdconnect.ie	IE	

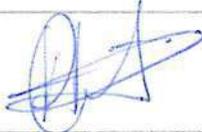
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
83	Fortes Rodríguez, Sergio sfr@ic.uma.es	ES	
84	Fuschini, Franco franco.fuschini@unibo.it	IT	
85	Gaidamaka, Yuliya ygaidamaka@mail.ru	RU	
86	Gaillot, Davy davy.gaillot@univ-lille.fr	FR	
87	Garcia Armada, Ana agarcia@tsc.uc3m.es	ES	
88	Garcia-Pardo, Concepcion cgpardo@iteam.upv.es	ES	
89	Gardasevic, Gordana gordana.gardasevic@etf.unibl.org	BA	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
90	Ghiaasi, Golsa golsa.ghiaasi@silicon-austria.com	AT	
91	Gijon Martin, Carolina cgm@ic.uma.es	ES	
92	Gontier, Quentin quentin.gontier@ulb.be	BE	
93	González-Serrato, Nuria nuriag@ic.uma.es	ES	
94	Grazioso, Paolo pgrazioso@fub.it	IT	
95	Guerra, Anna anna.guerra@ieiit.cnr.it	IT	
96	Guerra-Gómez, Rolando rolando.guerra@upc.edu	ES	

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Nr	Participant	Country	Signature
97	Guidi, Francesco francesco.guidi@ieiit.cnr.it	IT	
98	Guzey, Haci Mehmet mehmet.guzey@sivas.edu.tr	TR	
99	GUZEY, Nurbanu nurbanuguzey@gmail.com	TR	
100	Haddad, Yoram haddad@g.jct.ac.il	IL	
101	Hadziaganovic, Armin armin.hadziaganovic@silicon-austria.com	AT	
102	Haneda, Katsuyuki katsuyuki.haneda@aalto.fi	FI	
103	Hannotier, Cédric cedric.hannotier@ulb.be	BE	

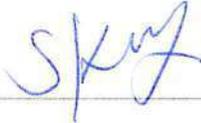
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
104	Hassan, Nina nina.hassan@tu-ilmenau.de	DE	
105	Hofer, Markus markus.hofer@ait.ac.at	AT	
106	Horvath, Balint horvath.balint@vik.bme.hu	HU	
107	Hron, Petr hronpetr@fel.cvut.cz	CZ	
108	Ioannou, Christiana cioannou@cs.ucy.ac.cy	CY	
109	Ivashina, Marianna marianna.ivashina@chalmers.se	SE	
110	Jämsä, Tommi tommi.jamsa@huawei.com	DE	

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<b>Nr.</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
111	Javornik, Tomaž tomaz.javornik@ijs.si	SI	
112	Jayakody Arachchilage, Dushantha Nalin Kumara nalin.jayakody@ieee.org	RU	
113	Jorge, Luísa ljorge@ipb.pt	PT	
114	Joseph, Wout wout.joseph@ugent.be	BE	
115	JUAN-LLACER, LEANDRO leandro.juan@upct.es	ES	
116	Katzis, Konstantinos K.Katzis@euc.ac.cy	CY	
117	Khatib, Emil emil@uma.es	ES	

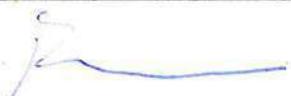
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Nr	Participant	Country	Signature
118	Kliks, Adrian adrian.kliks@put.poznan.pl	PL	
119	Kocan, Enis enisk@ucg.ac.me	ME	
120	Kocevska, Teodora teodora.kocevska@ijs.si	SI	
121	Kodra, Silvi silvi.kodra2@unibo.it	IT	
122	Kotterman, Wim wim.kotterman@tu-ilmenau.de	DE	
123	Krasniqi, Bujar bujar.krasniqi@uni-pr.edu	KV	
124	Kulakowski, Pawel kulakowski@agh.edu.pl	PL	

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<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
125	Kürner, Thomas kuerner@ifn.ing.tu-bs.de	DE	
126	Kyösti, Pekka pekka.kyosti@keysight.com	FI	
127	Lager, Ioan Ernest i.e.lager@tudelft.nl	NL	
128	Larsson, Christina christina.c.larsson@ericsson.com	SE	
129	Lehne, Per Hjalmar per-hjalmar.lehne@telenor.com	NO	
130	Li, Mengting mengli@es.aau.dk	DK	
131	Lieti, Valerio valerio.lieti@gmail.com	IT	

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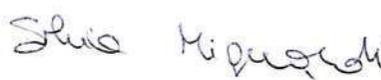
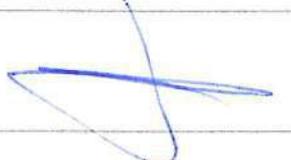
<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>				
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>	
132	Linsalata, Francesco francesco.linsalata@polimi.it	IT		
133	Liotou, Eirini eirini.liotou@iccs.gr	EL		
134	Lipovac, Adriana adriana.lipovac@unidu.hr	HR		
135	Longhi, Nicolo nicolo.longhi@unibo.it	IT		
136	Lyu, Yejian yely@es.aau.dk	DK		
137	Magarini, Maurizio maurizio.magarini@polimi.it	IT		
138	Mallik, Mohammed mohammed.mallik.etu@univ-lille.fr	FR		

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**Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
139	Maret, Yann yann.maret@hefr.ch	CH	
140	Marini, Riccardo r.marini@unibo.it	IT	
141	Mbugua, Allan Wainaina allan.mbugua@huawei.com	DE	
142	Mecklenbrauker, Christoph cfm@tuwien.ac.at	AT	
143	Meo, Michela michela.meo@polito.it	IT	
144	Merenda, Massimo massimo.merenda@ait.ac.at	AT	
145	Miao, Yang y.miao@utwente.nl	NL	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
146	Mignardi, Silvia silvia.mignardi@unibo.it	IT	
147	Mihaljević, Ante ante.mihaljevic@unidu.hr	HR	
148	Mikhaylov, Konstantin konstantin.mikhaylov@oulu.fi	FI	
149	Mlinar, Tomi tomi.mlinar@fe.uni-lj.si	SI	
150	Molina-Garcia-Pardo, Jose-Maria josemaria.molina@upct.es	ES	
151	Muzaffar, Raheeb raheeb.muzaffar@silicon-austria.com	AT	
152	Myint, Saw James saw-james.myint@tu-ilmenau.de	DE	

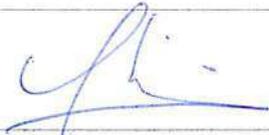
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
153	Narandzic, Milan orange@uns.ac.rs	RS	
154	Nguyen, Sinh sinh.l.nguyen@ericsson.com	SE	
155	Orozco, Luis luis.orozco@uclm.es	ES	
156	Oujezsky, Vaclav oujezsky@fi.muni.cz	CZ	
157	Ozdemir, Mehmet Kemal mkozdemir@medipol.edu.tr	TR	
158	Özkaynak, Fatih ozkaynak@firat.edu.tr	TR	
159	Pamp, Jörg pamp@ihf.rwth-aachen.de	DE	

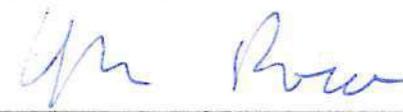
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<b>Nr.</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
160	Papaj, Ján jan.papaj@tuke.sk	SK	
161	Pasic, Faruk faruk.pasic@tuwien.ac.at	AT	
162	Pasolini, Gianni gianni.pasolini@unibo.it	IT	
163	Patrício, Sofia sofiaduartepatr@gmail.com	PT	
164	Pedersen, Troels troels@es.aau.dk	DK	
165	Pejanovic-Djurisic, Milica milica@ucg.ac.me	ME	
166	Peñaherrera, Oswaldo spulla@ic.uma.es	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
167	Petrini, Valeria vpetrini@fub.it	IT	
168	Polak, Ladislav polakl@feec.vutbr.cz	CZ	
169	Quitin, Francois fquitin@ulb.be	BE	
170	Radovic, Danilo danilo.radovic@tuwien.ac.at	AT	
171	Rainer, Benjamin benjamin.rainer@ait.ac.at	AT	
172	Rajchowski, Piotr piorajch@eti.pg.edu.pl	PL	
173	Raspopoulos, Marios mraspopoulos@gmail.com	CY	

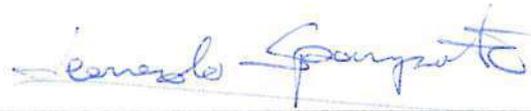
This information is collected for the purpose of checking eligibility for reimbursement of your expenses under the COST Vademecum rules (article 6.1.b of the GDPR) and, when the meeting takes place in COST premises, for safety purposes in compliance with our legal obligations under Belgian law (article 6.1.c of the GDPR). It will be kept for the duration of COST audit obligations as mentioned in the privacy notice for e-COST. It won't be transferred to any third party except in case of use for safety purposes where it will be transferred to the landlord of the premises and emergency services.

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
174	Rizzo, Gianluca gianluca.antonio.rizzo@gmail.com	CH	
175	Rudd, Richard richard.rudd@plumconsulting.co.uk	UK	
176	Ruiz Boqué, Silvia silvia.ruiz@upc.edu	ES	
177	Salous, Sana sana.salous@durham.ac.uk	UK	
178	Samouylov, Konstantin ksam@sci.pfu.edu.ru	RU	
179	Sanchez Martin, Joaquin M. jmsanchez@ic.uma.es	ES	
180	SANDIKKAYA, Mehmet Tahir sandikkaya@itu.edu.tr	TR	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
181	Sarcone Grande, Nicol nicol.sarcone96@gmail.com	IT	<i>Nicol Sarcone Grande</i>
182	sarrazin, Julien julien.sarrazin@upmc.fr	FR	
183	Schiffarth, Anna-Malin schiffarth@ihf.rwth-aachen.de	DE	
184	Schneider, Christian christian.schneider@tu-ilmenau.de	DE	
185	Schumacher, Laurent laurent.schumacher@unamur.be	BE	
186	Schwarz, Stefan stefan.schwarz@tuwien.ac.at	AT	
187	Seco-Granados, Gonzalo gonzalo.seco@uab.cat	ES	

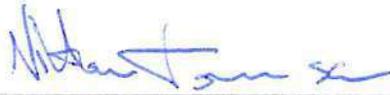
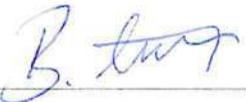
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
188	Siriwardhana, Yushan yushan.siriwardhana@oulu.fi	FI	
189	Skachek, Vitaly vitaly.skachek@gmail.com	EE	
190	Skocaj, Marco marco.skocaj@unibo.it	IT	
191	Skrivervik, Anja anja.skrivervik@epfl.ch	CH	
192	Sommerkorn, Gerd som@tu-ilmenau.de	DE	
193	Spampinato, Leonardo leonardo.spampinato@studio.unibo.it	IT	
194	Sroka, Pawel pawel.sroka@put.poznan.pl	PL	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
195	Steinboeck, Gerhard Gerhard.steinboeck@ericsson.com	SE	
196	Struyf, Amélia amelia.struyf@ulb.be	BE	
197	Stuebner, Ralph ralph.stuebner@cost.eu	XI	
198	Sykora, Jan jan.sykora@fel.cvut.cz	CZ	
199	Szini, Istvan istvanszini@gmail.com	DK	
200	Taramit, Hamid hamid.taramit@alu.uclm.es	ES	
201	Tarozzi, Alessia alessia.tarozzi@studio.unibo.it	IT	

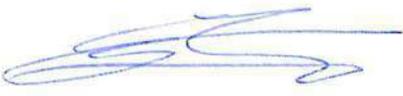
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
202	Tarrias, Antonio atm@ic.uma.es	ES	
203	Teixeira, Emanuel etsbg@hotmail.com	PT	
204	TESFAY, Angesom angesom.tesfay@imt-nord-europe.fr	FR	
205	Thielecke, Lennart thielecke@ifn.ing.tu-bs.de	DE	
206	Thomä, Reiner reiner.thomae@tu-ilmenau.de	DE	
207	Todisco, Vittorio vittorio.todisco@unibo.it	IT	
208	Torun, Buket torunbuket@gmail.com	IT	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
209	Tufvesson, Fredrik fredrik.tufvesson@eit.lth.se	SE	
210	Ulmschneider, Markus markus.ulmschneider@dlr.de	DE	
211	Unterhuber, Paul paul.unterhuber@dlr.de	DE	
212	Valbonesi, Simona svalbonesi@fub.it	IT	
213	Vallero, Greta greta.vallero@polito.it	IT	
214	Vassiliou, Vasos vasosv@cs.ucy.ac.cy	CY	
215	VELEZ, Fernando José fjv@ubi.pt	PT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
216	Verdone, Roberto roberto.verdone@unibo.it	IT	
217	Villemaud, Guillaume guillaume.villemaud@insa-lyon.fr	FR	
218	Vitucci, Enrico Maria enricomaria.vitucci@unibo.it	IT	
219	Vouyioukas, Demosthenes dvouyiou@aegean.gr	EL	
220	Vukobratovic, Dejan dejanv@uns.ac.rs	RS	
221	Wagen, Jean Frederic jean-frederic.wagen@hefr.ch	CH	
222	Walter, Michael m.walter@dlr.de	DE	

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**Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
223	Wasilewska, Małgorzata malgorzata.wasilewska@put.poznan.pl	PL	
224	Wiame, Charles charles.wiame@uclouvain.be	BE	
225	Wilding, Thomas thomas.wilding@tugraz.at	AT	
226	Witrisal, Klaus witrisal@tugraz.at	AT	
227	Yılmaz, Mehmet Fatih mehmetfatih.yilmaz@omu.edu.tr	TR	
228	Zabini, Flavio flavio.zabini2@unibo.it	IT	
229	Zammit, Joseph A. joseph.a.zammit@mcast.edu.mt	MT	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
230	Zelenbaba, Stefan stefan.zelenbaba@ait.ac.at	AT	
231	Zentner, Radovan radovan.zentner@fer.hr	HR	
232	Zhang, Haibin haibin.zhang@tno.nl	NL	
233	Zhang, Siwei siwei.zhang@dlr.de	DE	
234	Zugno, Tommaso tommaso.zugno@huawei.com	DE	
235	Koza, Yvette	J	
236			

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
237			
238			
239			

Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

**Name + signature**

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## MEETING ATTENDANCE LIST (MANAGEMENT COMMITTEE MEETING - 2022-02-11)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
1	Adeogun, Ramoni ra@es.aau.dk	DK	
2	Agram, Youssef Youssef.Agram@ulb.be	BE	
3	Agustin, Adrian adrian.agustin@cttc.cat	ES	
4	Ahmadi, Hamed hamed.ahmadi@ucd.ie	IE	
5	Ajmone Marsan, Marco marco.ajmone@imdea.org	ES	

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Nr	Participant	Country	Signature
6	Alayón Glazunov, Andrés a.alayonglazunov@utwente.nl	NL	
7	Aleksiejūnas, Rimvydas rimvydas.aleksiejunas@ff.vu.lt	LT	
8	Alexandru, Marian marian.alexandru@unitbv.ro	RO	
9	Ali, Mohammad Furqan ali89@tpu.ru	RU	
10	Alvarez Merino, Carlos carlosalvarezmerino@gmail.com	ES	Carlos Álvarez 
11	Ambroziak, Sławomir slawomir.ambroziak@pg.edu.pl	PL	Sławomir J. Ambroziak 
12	Amorosa, Lorenzo Mario lorenzomario.amorosa@unibo.it	IT	Amorosa Lorenzo 

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
13	Anton-Haro, Carles carles.anton@cttc.es	ES	
14	ARSLAN, Hüseyin arslan.usf@gmail.com	TR	
15	Asenov, Tatjana tatjana.asenov@sonova.com	CH	
16	Assanovich, Boris bas@grsu.by	BY	
17	AYDIN, Metin Mutlu metinmutluaydin@gmail.com	TR	
18	Baena Martinez, Eduardo baenaedu@uma.es	ES	
19	Bajić, Dragana dragana.bajic@gmail.com	RS	

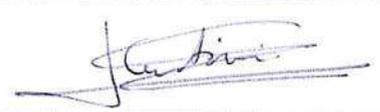
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<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
20	Balan, Titus Constantin titus.balan@unitbv.ro	RO	
21	Barbiroli, Marina marina.barbiroli@unibo.it	IT	
22	Bas, Joan joan.bas@cttc.es	ES	
23	Bazzi, Alessandro alessandro.bazzi@unibo.it	IT	
24	Beach, Mark m.a.beach@bristol.ac.uk	UK	
25	Becker, Dennis dennis.becker@dlr.de	DE	
26	Berbakov, Lazar lazar.berbakov@pupin.rs	RS	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
27	Bhatia, Gurjot Singh gsbhatia@siradel.com	FR	
28	Blazek, Thomas thomas.blazek@silicon-austria.com	AT	
29	Boban, Mate mate.boban@huawei.com	DE	
30	Bota, Vasile Vasile.Bota@com.utcluj.ro	RO	
31	Boujnoui, Ahmed ahmed.boujnoui@alu.uclm.es	ES	
32	Brennan, Conor conor.brennan@dcu.ie	IE	
33	Brida, Peter peter.brida@feit.uniza.sk	SK	

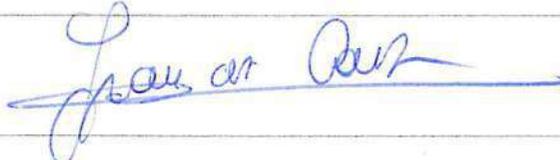
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
34	Bronckers, Sander l.a.bronckers@tue.nl	NL	
35	buracchini, enrico enrico.buracchini@telecomitalia.it	IT	
36	Buratti, Chiara c.buratti@unibo.it	IT	
37	Burr, Alister alister.burr@york.ac.uk	UK	
38	Cantizani Estepa, Juan jce@ic.uma.es	ES	
39	Carciofi, Claudia ccarciofi@fub.it	IT	
40	Cardona, Narcis ncardona@iteam.upv.es	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
41	Cardoso, Filipe filipe.cardoso@estsetubal.ips.pt	PT	
42	Carvalho, Afonso afonsolxp@gmail.com	PT	
43	Castelló Palacios, Sergio sercasp@iteam.upv.es	ES	
44	Cavallero, Sara s.cavallero@unibo.it	IT	<i>Sara Cavallero</i>
45	Chatzimisios, Periklis pchatzimisios@ihu.gr	EL	
46	Chatzinotas, Symeon schatzin@ieee.org	LU	
47	Chen Hu, Kun kchen@tsc.uc3m.es	ES	

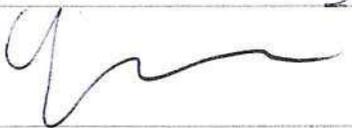
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
48	Chiumento, Alessandro a.chiumento@utwente.nl	NL	
49	Cichoń, Krzysztof krzysztof.cichon@put.poznan.pl	PL	
50	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
51	Conrat, Jean-Marc jeanmarc.conrat@orange.com	FR	
52	Conserva, Francesca francesca.conserva@unibo.it	IT	
53	Corre, Yoann yocorre@siradel.com	FR	
54	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	

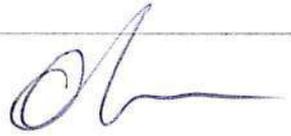
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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
55	Csatho, Botond Tamas csatho.botond@edu.bme.hu	HU	<i>Csatho Botond Tamas</i>
56	Cuozzo, Giampaolo giampaolo.cuozzo@unibo.it	IT	<i>Giampaolo Cuozzo</i>
57	Cwalina, Krzysztof kkcwalina@eti.pg.edu.pl	PL	
58	Czaniera, Daniel daniel.czaniera@tu-ilmenau.de	DE	
59	Czapiewska, Agnieszka agnieszka.czapiewska@pg.edu.pl	PL	<i>Agnieszka</i>
60	Czylwik, Andreas czylwik@nts.uni-duisburg-essen.de	DE	
61	d'Orey, Pedro pdorey@fe.up.pt	PT	

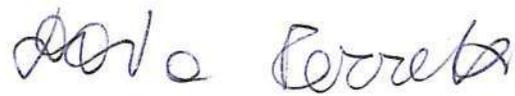
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
62	Dakic, Anja anja.dakic@ait.ac.at	AT	
63	Dardari, Davide ddardari@ieee.org	IT	
64	Das, Kallol kallol.das@tno.nl	NL	
65	De Bast, Sibren debastsibren@gmail.com	BE	
66	De Beelde, Brecht Brecht.DeBeelde@UGent.be	BE	
67	Decarli, Nicolo nicolo.decarli@ieiit.cnr.it	IT	
68	Degli-Esposti, Vittorio v.degliesposti@unibo.it	IT	

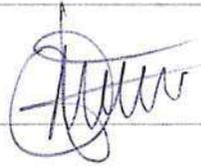
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
69	del Peral-Rosado, Jose A. Jose_Antonio.del_Peral_Rosado@airbus.com	DE	
70	Del Prete, Simone simone.delprete4@unibo.it	IT	
71	Demey, Simon simon.demey@uclouvain.be	BE	
72	Deruyck, Margot margot.deruyck@ugent.be	BE	
73	Di Cicco, Nicola nicola.dicicco@polimi.it	IT	
74	Dittmann, Lars ld@com.dtu.dk	DK	
75	Dupleich, Diego diego-andres.dupleich@tu-ilmenau.de	DE	

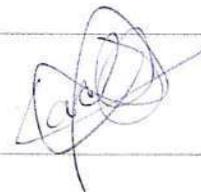
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
76	Ebadi, Zohreh zohreh.ebadi@ulb.be	BE	
77	Ekman, Torbjörn torbjorn.ekman@ntnu.no	NO	
78	El-faitori, Saied saied.o.el-faitori@durham.ac.uk	UK	
79	Fan, Wei wfa@es.aau.dk	DK	
80	Ferreira, Manuel manuel.ferreira@estsetubal.ips.pt	PT	
81	Ferretti, Danila danila.ferretti@unibo.it	IT	
82	Fontanesi, Gianluca gianluca.fontanesi@ucdconnect.ie	IE	

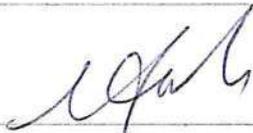
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
83	Fortes Rodríguez, Sergio sfr@ic.uma.es	ES	
84	Fuschini, Franco franco.fuschini@unibo.it	IT	
85	Gaidamaka, Yuliya ygaidamaka@mail.ru	RU	
86	Gaillot, Davy davy.gaillot@univ-lille.fr	FR	
87	Garcia Armada, Ana agarcia@tsc.uc3m.es	ES	
88	Garcia-Pardo, Concepcion cgpardo@iteam.upv.es	ES	
89	Gardasevic, Gordana gordana.gardasevic@etf.unibl.org	BA	

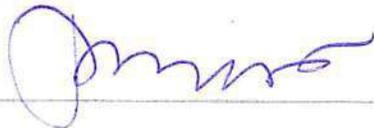
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
90	Ghiaasi, Golsa golsa.ghiaasi@silicon-austria.com	AT	
91	Gijon Martin, Carolina cgm@ic.uma.es	ES	
92	Gontier, Quentin quentin.gontier@ulb.be	BE	
93	González-Serrato, Nuria nuriag@ic.uma.es	ES	
94	Grazioso, Paolo pgrazioso@fub.it	IT	
95	Guerra, Anna anna.guerra@ieiit.cnr.it	IT	
96	Guerra-Gómez, Rolando rolando.guerra@upc.edu	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
97	Guidi, Francesco francesco.guidi@ieiit.cnr.it	IT	
98	Guzey, Haci Mehmet mehmet.guzey@sivas.edu.tr	TR	
99	GUZEY, Nurbanu nurbanuguzey@gmail.com	TR	
100	Haddad, Yoram haddad@g.jct.ac.il	IL	
101	Hadziaganovic, Armin armin.hadziaganovic@silicon-austria.com	AT	
102	Haneda, Katsuyuki katsuyuki.haneda@aalto.fi	FI	
103	Hannotier, Cédric cedric.hannotier@ulb.be	BE	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
104	Hassan, Nina nina.hassan@tu-ilmenau.de	DE	
105	Hofer, Markus markus.hofer@ait.ac.at	AT	
106	Horvath, Balint horvath.balint@vik.bme.hu	HU	
107	Hron, Petr hronpetr@fel.cvut.cz	CZ	
108	Ioannou, Christiana cioannou@cs.ucy.ac.cy	CY	
109	Ivashina, Marianna marianna.ivashina@chalmers.se	SE	
110	Jämsä, Tommi tommi.jamsa@huawei.com	DE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
111	Javornik, Tomaž tomaz.javornik@ijs.si	SI	
112	Jayakody Arachchilage, Dushantha Nalin Kumara nalin.jayakody@ieee.org	RU	
113	Jorge, Luísa ljorge@ipb.pt	PT	
114	Joseph, Wout wout.joseph@ugent.be	BE	
115	JUAN-LLACER, LEANDRO leandro.juan@upct.es	ES	
116	Katzis, Konstantinos K.Katzis@euc.ac.cy	CY	
117	Khatib, Emil emil@uma.es	ES	

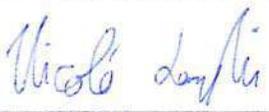
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
118	Kliks, Adrian adrian.kliks@put.poznan.pl	PL	
119	Kocan, Enis enisk@ucg.ac.me	ME	
120	Kocevska, Teodora teodora.kocevska@ijs.si	SI	
121	Kodra, Silvi silvi.kodra2@unibo.it	IT	
122	Kotterman, Wim wim.kotterman@tu-ilmenau.de	DE	
123	Krasniqi, Bujar bujar.krasniqi@uni-pr.edu	KV	
124	Kulakowski, Pawel kulakowski@agh.edu.pl	PL	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
125	Kümer, Thomas kuerner@ifn.ing.tu-bs.de	DE	
126	Kyösti, Pekka pekka.kyosti@keysight.com	FI	
127	Lager, Ioan Ernest i.e.lager@tudelft.nl	NL	
128	Larsson, Christina christina.c.larsson@ericsson.com	SE	
129	Lehne, Per Hjalmar per-hjalmar.lehne@telenor.com	NO	
130	Li, Mengting mengli@es.aau.dk	DK	
131	Lieti, Valerio valerio.lieti@gmail.com	IT	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
132	Linsalata, Francesco francesco.linsalata@polimi.it	IT	
133	Liotou, Eirini eirini.liotou@iccs.gr	EL	
134	Lipovac, Adriana adriana.lipovac@unidu.hr	HR	
135	Longhi, Nicolo nicolo.longhi@unibo.it	IT	
136	Lyu, Yejian yely@es.aau.dk	DK	
137	Magarini, Maurizio maurizio.magarini@polimi.it	IT	
138	Mallik, Mohammed mohammed.mallik.etu@univ-lille.fr	FR	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
139	Maret, Yann yann.maret@hefr.ch	CH	
140	Marini, Riccardo r.marini@unibo.it	IT	
141	Mbugua, Allan Wainaina allan.mbugua@huawei.com	DE	
142	Mecklenbrauker, Christoph cfm@tuwien.ac.at	AT	
143	Meo, Michela michela.meo@polito.it	IT	
144	Merenda, Massimo massimo.merenda@ait.ac.at	AT	
145	Miao, Yang y.miao@utwente.nl	NL	

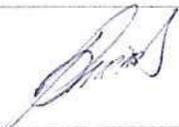
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
146	Mignardi, Silvia silvia.mignardi@unibo.it	IT	
147	Mihaljević, Ante ante.mihaljevic@unidu.hr	HR	
148	Mikhaylov, Konstantin konstantin.mikhaylov@oulu.fi	FI	
149	Mlinar, Tomi tomi.mlinar@fe.uni-lj.si	SI	
150	Molina-Garcia-Pardo, Jose-Maria josemaria.molina@upct.es	ES	
151	Muzaffar, Raheeb raheeb.muzaffar@silicon-austria.com	AT	
152	Myint, Saw James saw-james.myint@tu-ilmenau.de	DE	

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<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
153	Narandzic, Milan orange@uns.ac.rs	RS	
154	Nguyen, Sinh sinh.l.nguyen@ericsson.com	SE	
155	Orozco, Luis luis.orozco@uclm.es	ES	
156	Oujezsky, Vaclav oujezsky@fi.muni.cz	CZ	
157	Ozdemir, Mehmet Kemal mkozdemir@medipol.edu.tr	TR	
158	Özkaynak, Fatih ozkaynak@firat.edu.tr	TR	
159	Pamp, Jörg pamp@ihf.rwth-aachen.de	DE	

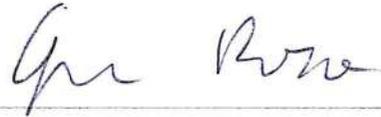
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
160	Papaj, Ján jan.papaj@tuke.sk	SK	
161	Pasic, Faruk faruk.pasic@tuwien.ac.at	AT	
162	Pasolini, Gianni gianni.pasolini@unibo.it	IT	
163	Patricio, Sofia sofiaduartepatr@gmail.com	PT	
164	Pedersen, Troels troels@es.aau.dk	DK	
165	Pejanovic-Djurisic, Milica milica@ucg.ac.me	ME	
166	Peñaherrera, Oswaldo sppulla@ic.uma.es	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
167	Petrini, Valeria vpetrini@fub.it	IT	
168	Polak, Ladislav polakl@feec.vutbr.cz	CZ	
169	Quitin, Francois fquitin@ulb.be	BE	
170	Radovic, Danilo danilo.radovic@tuwien.ac.at	AT	
171	Rainer, Benjamin benjamin.rainer@ait.ac.at	AT	
172	Rajchowski, Piotr piorajch@eti.pg.edu.pl	PL	
173	Raspopoulos, Marios mraspopoulos@gmail.com	CY	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
174	Rizzo, Gianluca gianluca.antonio.rizzo@gmail.com	CH	
175	Rudd, Richard richard.rudd@plumconsulting.co.uk	UK	
176	Ruiz Boqué, Silvia silvia.ruiz@upc.edu	ES	
177	Salous, Sana sana.salous@durham.ac.uk	UK	
178	Samouylov, Konstantin ksam@sci.pfu.edu.ru	RU	
179	Sanchez Martin, Joaquin M. jmsanchez@ic.uma.es	ES	
180	SANDIKKAYA, Mehmet Tahir sandikkaya@itu.edu.tr	TR	

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<b>Nr.</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
181	Sarcone Grande, Nicol nicol.sarcone96@gmail.com	IT	
182	sarrazin, Julien julien.sarrazin@upmc.fr	FR	
183	Schiffarth, Anna-Malin schiffarth@ihf.rwth-aachen.de	DE	
184	Schneider, Christian christian.schneider@tu-ilmenau.de	DE	
185	Schumacher, Laurent laurent.schumacher@unamur.be	BE	
186	Schwarz, Stefan stefan.schwarz@tuwien.ac.at	AT	
187	Seco-Granados, Gonzalo gonzalo.seco@uab.cat	ES	

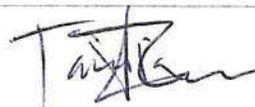
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<b>Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
188	Siriwardhana, Yushan yushan.siriwardhana@oulu.fi	FI	
189	Skachek, Vitaly vitaly.skachek@gmail.com	EE	
190	Skocaj, Marco marco.skocaj@unibo.it	IT	
191	Skrivervik, Anja anja.skrivervik@epfl.ch	CH	
192	Sommerkorn, Gerd som@tu-ilmenau.de	DE	
193	Spampinato, Leonardo leonardo.spampinato@studio.unibo.it	IT	
194	Sroka, Pawel pawel.sroka@put.poznan.pl	PL	

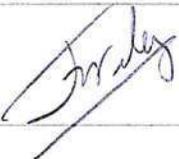
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
195	Steinboeck, Gerhard Gerhard.steinboeck@ericsson.com	SE	
196	Struyf, Amélia amelia.struyf@ulb.be	BE	
197	Stuebner, Ralph ralph.stuebner@cost.eu	XI	
198	Sykora, Jan jan.sykora@fel.cvut.cz	CZ	
199	Szini, Istvan istvanszini@gmail.com	DK	
200	Taramit, Hamid hamid.taramit@alu.uclm.es	ES	
201	Tarozzi, Alessia alessia.tarozzi@studio.unibo.it	IT	

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Nr	Participant	Country	Signature
202	Tarrias, Antonio atm@ic.uma.es	ES	
203	Teixeira, Emanuel etsbg@hotmail.com	PT	
204	TESFAY, Angesom angesom.tesfay@imt-nord-europe.fr	FR	
205	Thielecke, Lennart thielecke@ifn.ing.tu-bs.de	DE	
206	Thomä, Reiner reiner.thomae@tu-ilmenau.de	DE	
207	Todisco, Vittorio vittorio.todisco@unibo.it	IT	
208	Torun, Buket torunbuket@gmail.com	IT	

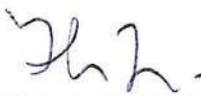
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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
209	Tufvesson, Fredrik fredrik.tufvesson@eit.lth.se	SE	
210	Ulmschneider, Markus markus.ulmschneider@dlr.de	DE	
211	Unterhuber, Paul paul.unterhuber@dlr.de	DE	
212	Valbonesi, Simona svalbonesi@fub.it	IT	
213	Vallero, Greta greta.vallero@polito.it	IT	
214	Vassiliou, Vasos vasosv@cs.ucy.ac.cy	CY	
215	VELEZ, Fernando José fjv@ubi.pt	PT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
216	Verdone, Roberto roberto.verdone@unibo.it	IT	
217	Villemaud, Guillaume guillaume.villemaud@insa-lyon.fr	FR	
218	Vitucci, Enrico Maria enricomaria.vitucci@unibo.it	IT	
219	Vouyioukas, Demosthenes dvouyiou@aegean.gr	EL	
220	Vukobratovic, Dejan dejanv@uns.ac.rs	RS	
221	Wagen, Jean Frederic jean-frederic.wagen@hefr.ch	CH	
222	Walter, Michael m.walter@dlr.de	DE	

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Management Committee - Management Committee Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
223	Wasilewska, Małgorzata malgorzata.wasilewska@put.poznan.pl	PL	
224	Wiame, Charles charles.wiame@uclouvain.be	BE	
225	Wilding, Thomas thomas.wilding@tugraz.at	AT	
226	Witrisal, Klaus witrisal@tugraz.at	AT	
227	Yılmaz, Mehmet Fatih mehmetfatih.yilmaz@omu.edu.tr	TR	
228	Zabini, Flavio flavio.zabini2@unibo.it	IT	
229	Zammit, Joseph A. joseph.a.zammit@mcast.edu.mt	MT	

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<b>Nr.</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
230	Zelenbaba, Stefan stefan.zelenbaba@ait.ac.at	AT	
231	Zentner, Radovan radovan.zentner@fer.hr	HR	
232	Zhang, Haibin haibin.zhang@tno.nl	NL	
233	Zhang, Siwei siwei.zhang@dlr.de	DE	
234	Zugno, Tommaso tommaso.zugno@huawei.com	DE	
235			
236			

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
237			
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Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

**Name + signature**

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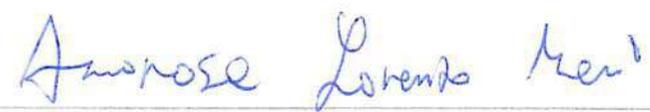
## MEETING ATTENDANCE LIST (WORKING GROUP MEETING - 2022-02-09)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
1	Adeogun, Ramoni ra@es.aau.dk	DK	
2	Agram, Youssef Youssef.Agram@ulb.be	BE	
3	Agustin, Adrian adrian.agustin@cttc.cat	ES	
4	Ahmadi, Hamed hamed.ahmadi@ucd.ie	IE	
5	Ajmone Marsan, Marco marco.ajmone@imdea.org	ES	

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Nr	Participant	Country	Signature
6	Alayón Glazunov, Andrés a.alayonglazunov@utwente.nl	NL	
7	Aleksiejūnas, Rimvydas rimvydas.aleksiejunas@ff.vu.lt	LT	
8	Alexandru, Marian marian.alexandru@unitbv.ro	RO	
9	Ali, Mohammad Furqan ali89@tpu.ru	RU	
10	Alvarez Merino, Carlos carlosalvarezmerino@gmail.com	ES	
11	Ambroziak, Slawomir slawomir.ambroziak@pg.edu.pl	PL	
12	Amorosa, Lorenzo Mario lorenzomario.amorosa@unibo.it	IT	

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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
13	Anton-Haro, Carles carles.anton@cttc.es	ES	
14	ARSLAN, Hüseyin arслан.usf@gmail.com	TR	
15	Asenov, Tatjana tatjana.asenov@sonova.com	CH	
16	Assanovich, Boris bas@grsu.by	BY	
17	AYDIN, Metin Mutlu metinmutluaydin@gmail.com	TR	
18	Baena Martinez, Eduardo baenaedu@uma.es	ES	
19	Bajić, Dragana dragana.bajic@gmail.com	RS	

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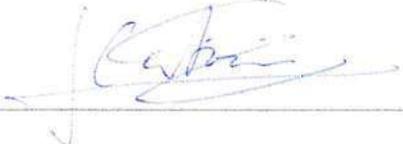
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
20	Balan, Titus Constantin titus.balan@unitbv.ro	RO	
21	Barbiroli, Marina marina.barbiroli@unibo.it	IT	
22	Bas, Joan joan.bas@cttc.es	ES	
23	Bazzi, Alessandro alessandro.bazzi@unibo.it	IT	
24	Beach, Mark m.a.beach@bristol.ac.uk	UK	
25	Becker, Dennis dennis.becker@dlr.de	DE	
26	Berbakov, Lazar lazar.berbakov@pupin.rs	RS	

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Nr	Participant	Country	Signature
27	Bhatia, Gurjot Singh gsbhatia@siradel.com	FR	
28	Blazek, Thomas thomas.blazek@silicon-austria.com	AT	
29	Boban, Mate mate.boban@huawei.com	DE	
30	Bota, Vasile Vasile.Bota@com.utcluj.ro	RO	
31	Boujnoui, Ahmed ahmed.boujnoui@alu.uclm.es	ES	
32	Brennan, Conor conor.brennan@dcu.ie	IE	
33	Brida, Peter peter.brida@feit.uniza.sk	SK	

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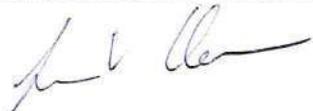
**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
34	Bronckers, Sander l.a.bronckers@tue.nl	NL	
35	buracchini, enrico enrico.buracchini@telecomitalia.it	IT	
36	Buratti, Chiara c.buratti@unibo.it	IT	
37	Burr, Alister alister.burr@york.ac.uk	UK	
38	Cantizani Estepa, Juan jce@ic.uma.es	ES	
39	Carciofi, Claudia ccarciofi@fub.it	IT	
40	Cardona, Narcis ncardona@iteam.upv.es	ES	

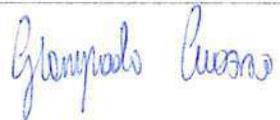
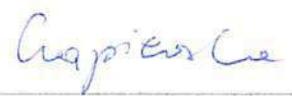
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
41	Cardoso, Filipe filipe.cardoso@estsetubal.ips.pt	PT	
42	Carvalho, Afonso afonsolxp@gmail.com	PT	
43	Castelló Palacios, Sergio sercaspa@iteam.upv.es	ES	
44	Cavallero, Sara s.cavallero@unibo.it	IT	<i>Sara Cavallero</i>
45	Chatzimisios, Periklis pchatzimisios@ihu.gr	EL	
46	Chatzinotas, Symeon schatzin@ieee.org	LU	
47	Chen Hu, Kun kchen@tsc.uc3m.es	ES	<i>Kun</i>

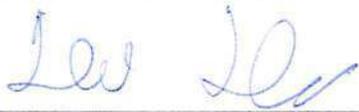
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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
48	Chiumento, Alessandro a.chiumento@utwente.nl	NL	
49	Cichoń, Krzysztof krzysztof.cichon@put.poznan.pl	PL	
50	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
51	Conrat, Jean-Marc jeanmarc.conrat@orange.com	FR	
52	Conserva, Francesca francesca.conserva@unibo.it	IT	
53	Corre, Yoann ycorre@siradel.com	FR	
54	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	

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Nr	Participant	Country	Signature
55	Csatho, Botond Tamas csatho.botond@edu.bme.hu	HU	
56	Cuozzo, Giampaolo giampaolo.cuozzo@unibo.it	IT	
57	Cwalina, Krzysztof kkcwalina@eti.pg.edu.pl	PL	
58	Czaniera, Daniel daniel.czaniera@tu-ilmenau.de	DE	
59	Czapiewska, Agnieszka agnieszka.czapiewska@pg.edu.pl	PL	
60	Czylwik, Andreas czylwik@nts.uni-duisburg-essen.de	DE	
61	d'Orey, Pedro pdorey@fe.up.pt	PT	

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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
62	Dakic, Anja anja.dakic@ait.ac.at	AT	
63	Dardari, Davide ddardari@ieee.org	IT	
64	Das, Kallol kallol.das@tno.nl	NL	
65	De Bast, Sibren debastsibren@gmail.com	BE	
66	De Beelde, Brecht Brecht.DeBeelde@UGent.be	BE	
67	Decarli, Nicolo nicolo.decarli@ieiit.cnr.it	IT	
68	Degli-Esposti, Vittorio v.degliesti@unibo.it	IT	

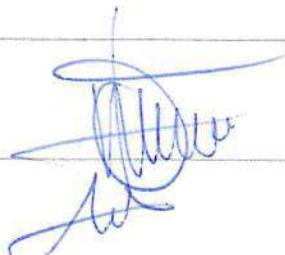
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
69	del Peral-Rosado, Jose A. Jose_Antonio.del_Peral_Rosado@airbus.com	DE	
70	Del Prete, Simone simone.delprete4@unibo.it	IT	
71	Demey, Simon simon.demey@uclouvain.be	BE	
72	Deruyck, Margot margot.deruyck@ugent.be	BE	
73	Di Cicco, Nicola nicola.dicicco@polimi.it	IT	
74	Dittmann, Lars ld@com.dtu.dk	DK	
75	Dupleich, Diego diego-andres.dupleich@tu-ilmenau.de	DE	

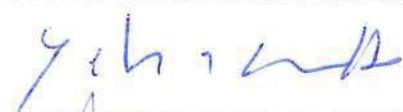
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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
76	Ebadi, Zohreh zohreh.ebadi@ulb.be	BE	
77	Ekman, Torbjörn torbjorn.ekman@ntnu.no	NO	
78	El-faitori, Saied saied.o.el-faitori@durham.ac.uk	UK	
79	Fan, Wei wfa@es.aau.dk	DK	
80	Ferreira, Manuel manuel.ferreira@estsetubal.ips.pt	PT	
81	Ferretti, Danila danila.ferretti@unibo.it	IT	
82	Fontanesi, Gianluca gianluca.fontanesi@ucdconnect.ie	IE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
83	Fortes Rodríguez, Sergio sfr@ic.uma.es	ES	
84	Fuschini, Franco franco.fuschini@unibo.it	IT	
85	Gaidamaka, Yuliya ygaidamaka@mail.ru	RU	
86	Gaillot, Davy davy.gaillot@univ-lille.fr	FR	
87	Garcia Armada, Ana agarcia@tsc.uc3m.es	ES	
88	Garcia-Pardo, Concepcion cgpardo@iteam.upv.es	ES	
89	Gardasevic, Gordana gordana.gardasevic@etf.unibl.org	BA	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
90	Ghiaasi, Golsa golsa.ghiaasi@silicon-austria.com	AT	
91	Gijon Martin, Carolina cgm@ic.uma.es	ES	
92	Gontier, Quentin quentin.gontier@ulb.be	BE	
93	González-Serrato, Nuria nuriag@ic.uma.es	ES	
94	Grazioso, Paolo pgrazioso@fub.it	IT	
95	Guerra, Anna anna.guerra@ieiit.cnr.it	IT	
96	Guerra-Gómez, Rolando rolando.guerra@upc.edu	ES	

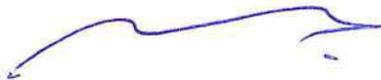
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
97	Guidi, Francesco francesco.guidi@ieiit.cnr.it	IT	
98	Guzey, Haci Mehmet mehmet.guzey@sivas.edu.tr	TR	
99	GUZEY, Nurbanu nurbanuguzey@gmail.com	TR	
100	Haddad, Yoram haddad@g.jct.ac.il	IL	
101	Hadziaganovic, Armin armin.hadziaganovic@silicon-austria.com	AT	
102	Haneda, Katsuyuki katsuyuki.haneda@aalto.fi	FI	
103	Hannotier, Cédric cedric.hannotier@ulb.be	BE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
104	Hassan, Nina nina.hassan@tu-ilmenau.de	DE	
105	Hofer, Markus markus.hofer@ait.ac.at	AT	
106	Horvath, Balint horvath.balint@vik.bme.hu	HU	
107	Hron, Petr hronpetr@fel.cvut.cz	CZ	
108	Ioannou, Christiana cioannou@cs.ucy.ac.cy	CY	
109	Ivashina, Marianna marianna.ivashina@chalmers.se	SE	
110	Jämsä, Tommi tommi.jamsa@huawei.com	DE	

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111	Javornik, Tomaž tomaz.javornik@ijs.si	SI	
112	Jayakody Arachchilage, Dushantha Nalin Kumara nalin.jayakody@ieee.org	RU	
113	Jorge, Luísa ljorge@ipb.pt	PT	
114	Joseph, Wout wout.joseph@ugent.be	BE	
115	JUAN-LLACER, LEANDRO leandro.juan@upct.es	ES	
116	Katzis, Konstantinos K.Katzis@euc.ac.cy	CY	
117	Khatib, Emil emil@uma.es	ES	

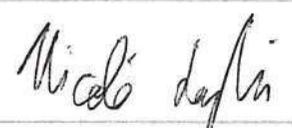
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
118	Kliks, Adrian adrian.kliks@put.poznan.pl	PL	
119	Kocan, Enis enisk@ucg.ac.me	ME	
120	Kocevska, Teodora teodora.kocevska@ijs.si	SI	
121	Kodra, Silvi silvi.kodra2@unibo.it	IT	
122	Kotterman, Wim wim.kotterman@tu-ilmenau.de	DE	
123	KOZA, Yvette yvette.koza@zte.com.cn	CN	
124	Krasniqi, Bujar bujar.krasniqi@uni-pr.edu	KV	

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125	Kulakowski, Pawel kulakowski@agh.edu.pl	PL	
126	Kürner, Thomas kuerner@ifn.ing.tu-bs.de	DE	
127	Kyösti, Pekka pekka.kyosti@keysight.com	FI	
128	Lager, Ioan Ernest i.e.lager@tudelft.nl	NL	
129	Larsson, Christina christina.c.larsson@ericsson.com	SE	
130	Lehne, Per Hjalmar per-hjalmar.lehne@telenor.com	NO	
131	Li, Jian calvin.li@huawei.com	CN	

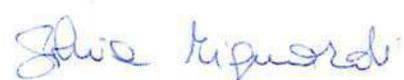
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
132	Li, Mengting mengli@es.aau.dk	DK	
133	li, wenbin liwenbin@bjtu.edu.cn	CN	
134	Lieti, Valerio valerio.lieti@gmail.com	IT	
135	Linsalata, Francesco francesco.linsalata@polimi.it	IT	
136	Liotou, Eirini eirini.liotou@iccs.gr	EL	
137	Lipovac, Adriana adriana.lipovac@unidu.hr	HR	
138	Longhi, Nicolo nicolo.longhi@unibo.it	IT	

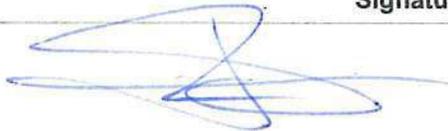
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
139	Lyu, Yejian yely@es.aau.dk	DK	
140	Magarini, Maurizio maurizio.magarini@polimi.it	IT	
141	Mallik, Mohammed mohammed.mallik.etu@univ-lille.fr	FR	
142	Maret, Yann yann.maret@hefr.ch	CH	
143	Marini, Riccardo r.marini@unibo.it	IT	
144	Mbugua, Allan Wainaina allan.mbugua@huawei.com	DE	
145	Mecklenbrauker, Christoph cfm@tuwien.ac.at	AT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
146	Meo, Michela michela.meo@polito.it	IT	
147	Merenda, Massimo massimo.merenda@ait.ac.at	AT	
148	Miao, Yang y.miao@utwente.nl	NL	
149	Mignardi, Silvia silvia.mignardi@unibo.it	IT	
150	Mihaljević, Ante ante.mihaljevic@unidu.hr	HR	
151	Mikhaylov, Konstantin konstantin.mikhaylov@oulu.fi	FI	
152	Mlinar, Tomi tomi.mlinar@fe.uni-lj.si	SI	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
153	Molina-Garcia-Pardo, Jose-Maria josemaria.molina@upct.es	ES	
154	Muzaffar, Raheeb raheeb.muzaffar@silicon-austria.com	AT	
155	Myint, Saw James saw-james.myint@tu-ilmenau.de	DE	
156	Narandzic, Milan orange@uns.ac.rs	RS	
157	Navarro, Andres anavarro@icesi.edu.co	CO	
158	Nguyen, Sinh sinh.l.nguyen@ericsson.com	SE	
159	Orozco, Luis luis.orozco@uclm.es	ES	

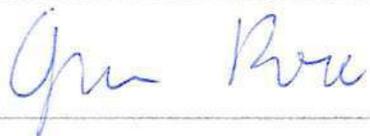
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
160	Oujezsky, Vaclav oujezsky@fi.muni.cz	CZ	
161	Ozdemir, Mehmet Kemal mkozdemir@medipol.edu.tr	TR	
162	Özkaynak, Fatih ozkaynak@firat.edu.tr	TR	
163	Pamp, Jörg pamp@ihf.rwth-aachen.de	DE	
164	Papaj, Ján jan.papaj@tuke.sk	SK	
165	Pasic, Faruk faruk.pasic@tuwien.ac.at	AT	
166	Pasolini, Gianni gianni.pasolini@unibo.it	IT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
167	Patrício, Sofia sofiaduartepatr@gmail.com	PT	
168	Pedersen, Troels troels@es.aau.dk	DK	
169	Pejanovic-Djurisic, Milica milica@ucg.ac.me	ME	
170	Peñaherrera, Oswaldo sppulla@ic.uma.es	ES	
171	Petrini, Valeria vpetrini@fub.it	IT	
172	Polak, Ladislav polakl@feec.vutbr.cz	CZ	
173	Quitin, Francois fquitin@ulb.be	BE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
174	Radovic, Danilo danilo.radovic@tuwien.ac.at	AT	
175	Rainer, Benjamin benjamin.rainer@ait.ac.at	AT	
176	Rajchowski, Piotr piorajch@eti.pg.edu.pl	PL	
177	Raspopoulos, Marios mraspopoulos@gmail.com	CY	
178	Rizzo, Gianluca gianluca.antonio.rizzo@gmail.com	CH	
179	Rudd, Richard richard.rudd@plumconsulting.co.uk	UK	
180	Ruiz Boqué, Silvia silvia.ruiz@upc.edu	ES	

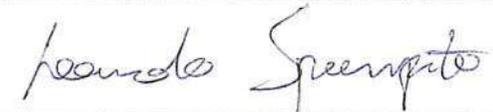
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Nr	Participant	Country	Signature
181	Saito, Kentaro saitouken@ide.titech.ac.jp	JP	
182	Salous, Sana sana.salous@durham.ac.uk	UK	
183	Samouylov, Konstantin ksam@sci.pfu.edu.ru	RU	
184	Sanchez Martin, Joaquin M. jmsanchez@ic.uma.es	ES	
185	SANDIKKAYA, Mehmet Tahir sandikkaya@itu.edu.tr	TR	
186	Sarcone Grande, Nicol nicol.sarcone96@gmail.com	IT	
187	sarrazin, Julien julien.sarrazin@upmc.fr	FR	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
188	Sayrafian, Kamran kamran.sayrafian@nist.gov	US	
189	Schiffarth, Anna-Malin schiffarth@ihf.rwth-aachen.de	DE	
190	Schneider, Christian christian.schneider@tu-ilmenau.de	DE	
191	Schumacher, Laurent laurent.schumacher@unamur.be	BE	
192	Schwarz, Stefan stefan.schwarz@tuwien.ac.at	AT	
193	Seco-Granados, Gonzalo gonzalo.seco@uab.cat	ES	
194	Siriwardhana, Yushan yushan.siriwardhana@oulu.fi	FI	

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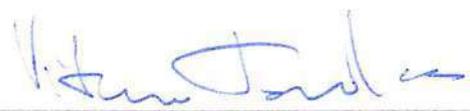
<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
195	Skachek, Vitaly vitaly.skachek@gmail.com	EE	
196	Skocaj, Marco marco.skocaj@unibo.it	IT	
197	Skrivervik, Anja anja.skrivervik@epfl.ch	CH	
198	Sommerkorn, Gerd som@tu-ilmenau.de	DE	
199	Spampinato, Leonardo leonardo.spampinato@studio.unibo.it	IT	
200	Sroka, Pawel pawel.sroka@put.poznan.pl	PL	
201	Steinboeck, Gerhard Gerhard.steinboeck@ericsson.com	SE	

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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
202	Struyf, Amélia amelia.struyf@ulb.be	BE	
203	Stuebner, Ralph ralph.stuebner@cost.eu	XI	
204	Sykora, Jan jan.sykora@fel.cvut.cz	CZ	
205	Szini, Istvan istvanszini@gmail.com	DK	
206	Takada, Jun-ichi takada@ide.titech.ac.jp	JP	
207	Taramit, Hamid hamid.taramit@alu.uclm.es	ES	
208	Tarozzi, Alessia alessia.tarozzi@studio.unibo.it	IT	

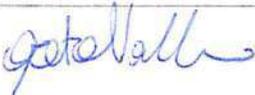
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**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
209	Tarrias, Antonio atm@ic.uma.es	ES	
210	Teixeira, Emanuel etsbg@hotmail.com	PT	
211	TESFAY, Angesom angesom.tesfay@imt-nord-europe.fr	FR	
212	Thielecke, Lennart thielecke@ifn.ing.tu-bs.de	DE	
213	Thomä, Reiner reiner.thomae@tu-ilmenau.de	DE	
214	Todisco, Vittorio vittorio.todisco@unibo.it	IT	
215	Torrìco, Saul storrico@comsearch.com	US	

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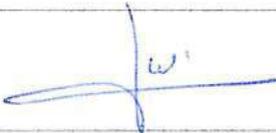
**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
216	Torun, Buket torunbuket@gmail.com	IT	
217	Tufvesson, Fredrik fredrik.tufvesson@eit.lth.se	SE	
218	Ulmschneider, Markus markus.ulmschneider@dlr.de	DE	
219	Unterhuber, Paul paul.unterhuber@dlr.de	DE	
220	Valbonesi, Simona svalbonesi@fub.it	IT	
221	Vallero, Greta greta.vallero@polito.it	IT	
222	Vassiliou, Vasos vasosv@cs.ucy.ac.cy	CY	

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Nr	Participant	Country	Signature
223	VELEZ, Fernando José fjv@ubi.pt	PT	
224	Verdone, Roberto roberto.verdone@unibo.it	IT	
225	Villemaud, Guillaume guillaume.villemaud@insa-lyon.fr	FR	
226	Vitucci, Enrico Maria enricomaria.vitucci@unibo.it	IT	
227	Vouyioukas, Demosthenes dvouyiou@aegean.gr	EL	
228	Vukobratovic, Dejan dejanv@uns.ac.rs	RS	
229	Wagen, Jean Frederic jean-frederic.wagen@hefr.ch	CH	

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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
230	Walter, Michael m.walter@dlr.de	DE	
231	Wasilewska, Małgorzata malgorzata.wasilewska@put.poznan.pl	PL	
232	Wiame, Charles charles.wiame@uclouvain.be	BE	
233	Wilding, Thomas thomas.wilding@tugraz.at	AT	
234	Witrisal, Klaus witrisal@tugraz.at	AT	
235	Xie, Pengxiang 20120137@bjtu.edu.cn	CN	
236	Xiping, Wang 16211133@bjtu.edu.cn	CN	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
237	Yan, Dong yandong@bjtu.edu.cn	CN	
238	Yilmaz, Mehmet Fatih mehmetfatih.yilmaz@omu.edu.tr	TR	
239	yu, ziming yuziming@huawei.com	CN	
240	Zabini, Flavio flavio.zabini2@unibo.it	IT	
241	Zammit, Joseph A. joseph.a.zammit@mcast.edu.mt	MT	
242	Zelenbaba, Stefan stefan.zelenbaba@ait.ac.at	AT	
243	Zentner, Radovan radovan.zentner@fer.hr	HR	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
244	Zhang, Haibin haibin.zhang@tno.nl	NL	
245	Zhang, Siwei siwei.zhang@dlr.de	DE	
246	Zhu, Luoyan Zhu_Luoyan@outlook.com	CN	
247	Zugno, Tommaso tommaso.zugno@huawei.com	DE	
248			
249			
250			

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**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
251			
252			

Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

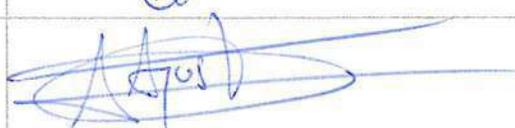
**Name + signature**

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## MEETING ATTENDANCE LIST (WORKING GROUP MEETING - 2022-02-10)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
1	Adeogun, Ramoni ra@es.aau.dk	DK	
2	Agram, Youssef Youssef.Agram@ulb.be	BE	
3	Agustin, Adrian adrian.agustin@cttc.cat	ES	
4	Ahmadi, Hamed hamed.ahmadi@ucd.ie	IE	
5	Ajmone Marsan, Marco marco.ajmone@imdea.org	ES	

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**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
6	Alayón Glazunov, Andrés a.alayonglazunov@utwente.nl	NL	
7	Aleksiejūnas, Rimvydas rimvydas.aleksiejunas@ff.vu.lt	LT	
8	Alexandru, Marian marian.alexandru@unitbv.ro	RO	
9	Ali, Mohammad Furqan ali89@tpu.ru	RU	
10	Alvarez Merino, Carlos carlosalvarezmerino@gmail.com	ES	
11	Ambroziak, Slawomir slawomir.ambroziak@pg.edu.pl	PL	
12	Amorosa, Lorenzo Mario lorenzomario.amorosa@unibo.it	IT	

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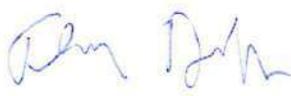
<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
13	Anton-Haro, Carles carles.anton@cttc.es	ES	
14	ARSLAN, Hüseyin arслан.usf@gmail.com	TR	
15	Asenov, Tatjana tatjana.asenov@sonova.com	CH	
16	Assanovich, Boris bas@grsu.by	BY	
17	AYDIN, Metin Mutlu metinmutluaydin@gmail.com	TR	
18	Baena Martinez, Eduardo baenaedu@uma.es	ES	
19	Bajić, Dragana dragana.bajic@gmail.com	RS	

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Nr	Participant	Country	Signature
20	Balan, Titus Constantin titus.balan@unitbv.ro	RO	
21	Barbiroli, Marina marina.barbiroli@unibo.it	IT	
22	Bas, Joan joan.bas@cttc.es	ES	
23	Bazzi, Alessandro alessandro.bazzi@unibo.it	IT	
24	Beach, Mark m.a.beach@bristol.ac.uk	UK	
25	Becker, Dennis dennis.becker@dlr.de	DE	
26	Berbakov, Lazar lazar.berbakov@pupin.rs	RS	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
27	Bhatia, Gurjot Singh gsbhatia@siradel.com	FR	
28	Blazek, Thomas thomas.blazek@silicon-austria.com	AT	
29	Boban, Mate mate.boban@huawei.com	DE	
30	Bota, Vasile Vasile.Bota@com.utcluj.ro	RO	
31	Boujnoui, Ahmed ahmed.boujnoui@alu.uclm.es	ES	
32	Brennan, Conor conor.brennan@dcu.ie	IE	
33	Brida, Peter peter.brida@feit.uniza.sk	SK	

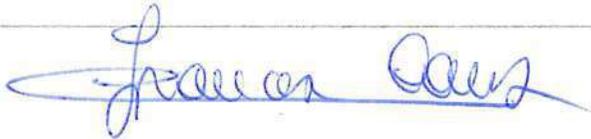
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
34	Bronckers, Sander l.a.bronckers@tue.nl	NL	
35	buracchini, enrico enrico.buracchini@telecomitalia.it	IT	
36	Buratti, Chiara c.buratti@unibo.it	IT	
37	Burr, Alister alister.burr@york.ac.uk	UK	
38	Cantizani Estepa, Juan jce@ic.uma.es	ES	
39	Carciofi, Claudia ccarciofi@fub.it	IT	
40	Cardona, Narcis ncardona@iteam.upv.es	ES	

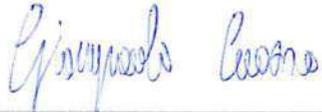
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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
41	Cardoso, Filipe filipe.cardoso@estsetubal.ips.pt	PT	
42	Carvalho, Afonso afonsolxp@gmail.com	PT	
43	Castelló Palacios, Sergio sercaspa@iteam.upv.es	ES	
44	Cavallero, Sara s.cavallero@unibo.it	IT	<i>Sara Cavallero</i>
45	Chatzimisios, Periklis pchatzimisios@ihu.gr	EL	
46	Chatzinotas, Symeon schatzin@ieee.org	LU	
47	Chen Hu, Kun kchen@tsc.uc3m.es	ES	<i>Kun Chen</i>

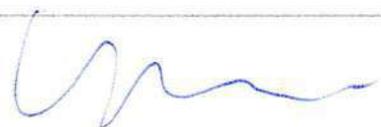
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
48	Chiumento, Alessandro a.chiumento@utwente.nl	NL	
49	Cichoń, Krzysztof krzysztof.cichon@put.poznan.pl	PL	
50	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
51	Conrat, Jean-Marc jeanmarc.conrat@orange.com	FR	
52	Conserva, Francesca francesca.conserva@unibo.it	IT	
53	Corre, Yoann yocorre@siradel.com	FR	
54	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
55	Csatho, Botond Tamas csatho.botond@edu.bme.hu	HU	
56	Cuozzo, Giampaolo giampaolo.cuozzo@unibo.it	IT	
57	Cwalina, Krzysztof kkcwalina@eti.pg.edu.pl	PL	
58	Czaniera, Daniel daniel.czaniera@tu-ilmenau.de	DE	
59	Czapiewska, Agnieszka agnieszka.czapiewska@pg.edu.pl	PL	
60	Czylwik, Andreas czylwik@nts.uni-duisburg-essen.de	DE	
61	d'Orey, Pedro pdorey@fe.up.pt	PT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
62	Dakic, Anja anja.dakic@ait.ac.at	AT	
63	Dardari, Davide ddardari@ieee.org	IT	
64	Das, Kallol kallol.das@tno.nl	NL	
65	De Bast, Sibren debastsibren@gmail.com	BE	
66	De Beelde, Brecht Brecht.DeBeelde@UGent.be	BE	
67	Decarli, Nicolo nicolo.decarli@ieiit.cnr.it	IT	
68	Degli-Esposti, Vittorio v.degliesposti@unibo.it	IT	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
69	del Peral-Rosado, Jose A. Jose_Antonio.del_Peral_Rosado@airbus.com	DE	
70	Del Prete, Simone simone.delprete4@unibo.it	IT	
71	Demey, Simon simon.demey@uclouvain.be	BE	
72	Deruyck, Margot margot.deruyck@ugent.be	BE	
73	Di Cicco, Nicola nicola.dicicco@polimi.it	IT	
74	Dittmann, Lars ld@com.dtu.dk	DK	
75	Dupleich, Diego diego-andres.dupleich@tu-ilmenau.de	DE	

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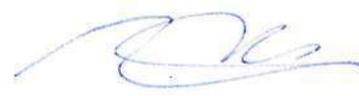
<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
76	Ebadi, Zohreh zohreh.ebadi@ulb.be	BE	
77	Ekman, Torbjörn torbjorn.ekman@ntnu.no	NO	
78	El-faitori, Saied saied.o.el-faitori@durham.ac.uk	UK	
79	Fan, Wei wfa@es.aau.dk	DK	
80	Ferreira, Manuel manuel.ferreira@estsetubal.ips.pt	PT	
81	Ferretti, Danila danila.ferretti@unibo.it	IT	
82	Fontanesi, Gianluca gianluca.fontanesi@ucdconnect.ie	IE	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
83	Fortes Rodríguez, Sergio sfr@ic.uma.es	ES	
84	Fuschini, Franco franco.fuschini@unibo.it	IT	
85	Gaidamaka, Yuliya ygaidamaka@mail.ru	RU	
86	Gaillot, Davy davy.gaillot@univ-lille.fr	FR	
87	Garcia Armada, Ana agarcia@tsc.uc3m.es	ES	
88	Garcia-Pardo, Concepcion cgpardo@iteam.upv.es	ES	
89	Gardasevic, Gordana gordana.gardasevic@etf.unibl.org	BA	

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**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
90	Ghiaasi, Golsa golsa.ghiaasi@silicon-austria.com	AT	
91	Gijon Martin, Carolina cgm@ic.uma.es	ES	
92	Gontier, Quentin quentin.gontier@ulb.be	BE	
93	González-Serrato, Nuria nuriag@ic.uma.es	ES	
94	Grazioso, Paolo pgrazioso@fub.it	IT	
95	Guerra, Anna anna.guerra@ieiit.cnr.it	IT	
96	Guerra-Gómez, Rolando rolando.guerra@upc.edu	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
97	Guidi, Francesco francesco.guidi@ieiit.cnr.it	IT	
98	Guzey, Haci Mehmet mehmet.guzey@sivas.edu.tr	TR	
99	GUZEY, Nurbanu nurbanuguzey@gmail.com	TR	
100	Haddad, Yoram haddad@g.jct.ac.il	IL	
101	Hadziaganovic, Armin armin.hadziaganovic@silicon-austria.com	AT	
102	Haneda, Katsuyuki katsuyuki.haneda@aalto.fi	FI	
103	Hannotier, Cédric cedric.hannotier@ulb.be	BE	

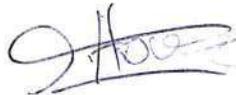
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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
104	Hassan, Nina nina.hassan@tu-ilmenau.de	DE	
105	Hofer, Markus markus.hofer@ait.ac.at	AT	
106	Horvath, Balint horvath.balint@vik.bme.hu	HU	
107	Hron, Petr hronpetr@fel.cvut.cz	CZ	
108	Ioannou, Christiana cioannou@cs.ucy.ac.cy	CY	
109	Ivashina, Marianna marianna.ivashina@chalmers.se	SE	
110	Jämsä, Tommi tommi.jamsa@huawei.com	DE	

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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
111	Javornik, Tomaž tomaz.javornik@ijs.si	SI	
112	Jayakody Arachchilage, Dushantha Nalin Kumara nalin.jayakody@ieee.org	RU	
113	Jorge, Luísa ljorge@ipb.pt	PT	
114	Joseph, Wout wout.joseph@ugent.be	BE	
115	JUAN-LLACER, LEANDRO leandro.juan@upct.es	ES	
116	Katzis, Konstantinos K.Katzis@euc.ac.cy	CY	
117	Khatib, Emil emil@uma.es	ES	

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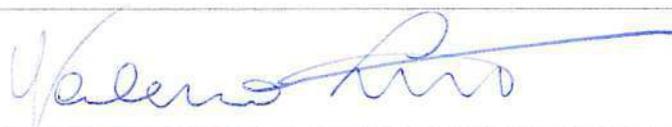
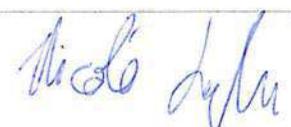
<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
118	Kliks, Adrian adrian.kliks@put.poznan.pl	PL	
119	Kocan, Enis enisk@ucg.ac.me	ME	
120	Kocevska, Teodora teodora.kocevska@ijs.si	SI	
121	Kodra, Silvi silvi.kodra2@unibo.it	IT	
122	Kotterman, Wim wim.kotterman@tu-ilmenau.de	DE	
123	KOZA, Yvette yvette.koza@zte.com.cn	CN	
124	Krasniqi, Bujar bujar.krasniqi@uni-pr.edu	KV	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
125	Kulakowski, Pawel kulakowski@agh.edu.pl	PL	
126	Kürner, Thomas kuerner@ifn.ing.tu-bs.de	DE	
127	Kyösti, Pekka pekka.kyosti@keysight.com	FI	
128	Lager, Ioan Ernest i.e.lager@tudelft.nl	NL	
129	Larsson, Christina christina.c.larsson@ericsson.com	SE	
130	Lehne, Per Hjalmar per-hjalmar.lehne@telenor.com	NO	
131	Li, Jian calvin.li@huawei.com	CN	

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**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
132	Li, Mengting mengli@es.aau.dk	DK	
133	li, wenbin liwenbin@bjtu.edu.cn	CN	
134	Lieti, Valerio valerio.lieti@gmail.com	IT	
135	Linsalata, Francesco francesco.linsalata@polimi.it	IT	
136	Liotou, Eirini eirini.liotou@iccs.gr	EL	
137	Lipovac, Adriana adriana.lipovac@unidu.hr	HR	
138	Longhi, Nicolo nicolo.longhi@unibo.it	IT	

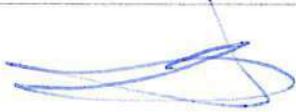
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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
139	Lyu, Yejian yely@es.aau.dk	DK	
140	Magarini, Maurizio maurizio.magarini@polimi.it	IT	
141	Mallik, Mohammed mohammed.mallik.etu@univ-lille.fr	FR	
142	Maret, Yann yann.maret@hefr.ch	CH	
143	Marini, Riccardo r.marini@unibo.it	IT	
144	Mbugua, Allan Wainaina allan.mbugua@huawei.com	DE	
145	Mecklenbrauker, Christoph cfm@tuwien.ac.at	AT	

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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
146	Meo, Michela michela.meo@polito.it	IT	
147	Merenda, Massimo massimo.merenda@ait.ac.at	AT	
148	Miao, Yang y.miao@utwente.nl	NL	
149	Mignardi, Silvia silvia.mignardi@unibo.it	IT	
150	Mihaljević, Ante ante.mihaljevic@unidu.hr	HR	
151	Mikhaylov, Konstantin konstantin.mikhaylov@oulu.fi	FI	
152	Mlinar, Tomi tomi.mlinar@fe.uni-lj.si	SI	

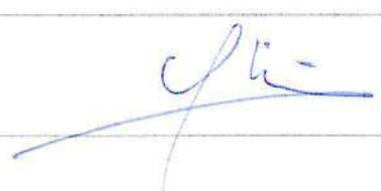
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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
153	Molina-Garcia-Pardo, Jose-Maria josemaria.molina@upct.es	ES	
154	Muzaffar, Raheeb raheeb.muzaffar@silicon-austria.com	AT	
155	Myint, Saw James saw-james.myint@tu-ilmenau.de	DE	
156	Narandzic, Milan orange@uns.ac.rs	RS	
157	Navarro, Andres anavarro@icesi.edu.co	CO	
158	Nguyen, Sinh sinh.l.nguyen@ericsson.com	SE	
159	Orozco, Luis luis.orozco@uclm.es	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
160	Oujezsky, Vaclav oujezsky@fi.muni.cz	CZ	
161	Ozdemir, Mehmet Kemal mkozdemir@medipol.edu.tr	TR	
162	Özkaynak, Fatih ozkaynak@firat.edu.tr	TR	
163	Pamp, Jörg pamp@ihf.rwth-aachen.de	DE	
164	Papaj, Ján jan.papaj@tuke.sk	SK	
165	Pasic, Faruk faruk.pasic@tuwien.ac.at	AT	
166	Pasolini, Gianni gianni.pasolini@unibo.it	IT	

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Nr	Participant	Country	Signature
167	Patrício, Sofia sofiaduartepatr@gmail.com	PT	
168	Pedersen, Troels troels@es.aau.dk	DK	
169	Pejanovic-Djurisic, Milica milica@ucg.ac.me	ME	
170	Peñaherrera, Oswaldo sppulla@ic.uma.es	ES	
171	Petrini, Valeria vpetrini@fub.it	IT	
172	Polak, Ladislav polakl@feec.vutbr.cz	CZ	
173	Quitin, Francois fquitin@ulb.be	BE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
174	Radovic, Danilo danilo.radovic@tuwien.ac.at	AT	
175	Rainer, Benjamin benjamin.rainer@ait.ac.at	AT	
176	Rajchowski, Piotr piorajch@eti.pg.edu.pl	PL	
177	Raspopoulos, Marios mraspopoulos@gmail.com	CY	
178	Rizzo, Gianluca gianluca.antonio.rizzo@gmail.com	CH	
179	Rudd, Richard richard.rudd@plumconsulting.co.uk	UK	
180	Ruiz Boqué, Silvia silvia.ruiz@upc.edu	ES	

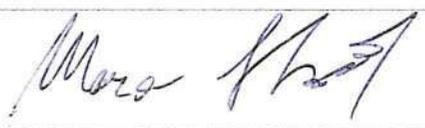
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Nr	Participant	Country	Signature
181	Saito, Kentaro saitouken@ide.titech.ac.jp	JP	
182	Salous, Sana sana.salous@durham.ac.uk	UK	
183	Samouylov, Konstantin ksam@sci.pfu.edu.ru	RU	
184	Sanchez Martin, Joaquin M. jmsanchez@ic.uma.es	ES	
185	SANDIKKAYA, Mehmet Tahir sandikkaya@itu.edu.tr	TR	
186	Sarcone Grande, Nicol nicol.sarcone96@gmail.com	IT	
187	sarrazin, Julien julien.sarrazin@upmc.fr	FR	

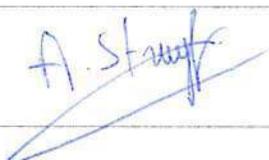
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
188	Sayrafian, Kamran kamran.sayrafian@nist.gov	US	
189	Schiffarth, Anna-Malin schiffarth@ihf.rwth-aachen.de	DE	
190	Schneider, Christian christian.schneider@tu-ilmenau.de	DE	
191	Schumacher, Laurent laurent.schumacher@unamur.be	BE	
192	Schwarz, Stefan stefan.schwarz@tuwien.ac.at	AT	
193	Seco-Granados, Gonzalo gonzalo.seco@uab.cat	ES	
194	Siriwardhana, Yushan yushan.siriwardhana@oulu.fi	FI	

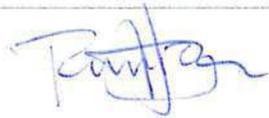
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Nr	Participant	Country	Signature
195	Skachek, Vitaly vitaly.skachek@gmail.com	EE	
196	Skocaj, Marco marco.skocaj@unibo.it	IT	
197	Skrivervik, Anja anja.skrivervik@epfl.ch	CH	
198	Sommerkorn, Gerd som@tu-ilmenau.de	DE	
199	Spampinato, Leonardo leonardo.spampinato@studio.unibo.it	IT	
200	Sroka, Pawel pawel.sroka@put.poznan.pl	PL	
201	Steinboeck, Gerhard Gerhard.steinboeck@ericsson.com	SE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
202	Struyf, Amélia amelia.struyf@ulb.be	BE	
203	Stuebner, Ralph ralph.stuebner@cost.eu	XI	
204	Sykora, Jan jan.sykora@fel.cvut.cz	CZ	
205	Szini, Istvan istvanszini@gmail.com	DK	
206	Takada, Jun-ichi takada@ide.titech.ac.jp	JP	
207	Taramit, Hamid hamid.taramit@alu.uclm.es	ES	
208	Tarozzi, Alessia alessia.tarozzi@studio.unibo.it	IT	

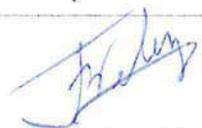
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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
209	Tarrias, Antonio atm@ic.uma.es	ES	
210	Teixeira, Emanuel etsbg@hotmail.com	PT	
211	TESFAY, Angesom angesom.tesfay@imt-nord-europe.fr	FR	
212	Thielecke, Lennart thielecke@ifn.ing.tu-bs.de	DE	
213	Thomä, Reiner reiner.thomae@tu-ilmenau.de	DE	
214	Todisco, Vittorio vittorio.todisco@unibo.it	IT	
215	Torrico, Saul storrico@comsearch.com	US	

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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
216	Torun, Buket torunbuket@gmail.com	IT	
217	Tufvesson, Fredrik fredrik.tufvesson@eit.lth.se	SE	
218	Ulmschneider, Markus markus.ulmschneider@dlr.de	DE	
219	Unterhuber, Paul paul.unterhuber@dlr.de	DE	
220	Valbonesi, Simona svalbonesi@fub.it	IT	
221	Vallero, Greta greta.vallero@polito.it	IT	
222	Vassiliou, Vasos vasosv@cs.ucy.ac.cy	CY	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
223	VELEZ, Fernando José fjv@ubi.pt	PT	
224	Verdone, Roberto roberto.verdone@unibo.it	IT	
225	Villemaud, Guillaume guillaume.villemaud@insa-lyon.fr	FR	
226	Vitucci, Enrico Maria enricomaria.vitucci@unibo.it	IT	
227	Vouyioukas, Demosthenes dvouyiou@aegean.gr	EL	
228	Vukobratovic, Dejan dejanv@uns.ac.rs	RS	
229	Wagen, Jean Frederic jean-frederic.wagen@hefr.ch	CH	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
230	Walter, Michael m.walter@dlr.de	DE	
231	Wasilewska, Malgorzata malgorzata.wasilewska@put.poznan.pl	PL	
232	Wiame, Charles charles.wiame@uclouvain.be	BE	
233	Wilding, Thomas thomas.wilding@tugraz.at	AT	
234	Witrisal, Klaus witrisal@tugraz.at	AT	
235	Xie, Pengxiang 20120137@bjtu.edu.cn	CN	
236	Xiping, Wang 16211133@bjtu.edu.cn	CN	

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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
237	Yan, Dong yandong@bjtu.edu.cn	CN	
238	Yilmaz, Mehmet Fatih mehmetfatih.yilmaz@omu.edu.tr	TR	
239	yu, ziming yuziming@huawei.com.	CN	
240	Zabini, Flavio flavio.zabini2@unibo.it	IT	
241	Zammit, Joseph A. joseph.a.zammit@mcast.edu.mt	MT	
242	Zelenbaba, Stefan stefan.zelenbaba@ait.ac.at	AT	
243	Zentner, Radovan radovan.zentner@fer.hr	HR	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
244	Zhang, Haibin haibin.zhang@tno.nl	NL	
245	Zhang, Siwei siwei.zhang@dlr.de	DE	
246	Zhu, Luoyan Zhu_Luoyan@outlook.com	CN	
247	Zugno, Tommaso tommaso.zugno@huawei.com	DE	
248			
249			
250			

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
251			
252			

Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

**Meeting Secretary**

**(Chair or local organiser)**

**Name + signature**

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## MEETING ATTENDANCE LIST (WORKING GROUP MEETING - 2022-02-11)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

<b>Meeting Title: 2nd MC and 1st Scientific Meetings</b>	
<b>Meeting Reference: E-COST-MEETING-CA20120-080222-718c94b9</b>	<b>Action Number: CA20120</b>
<b>Meeting Administrator: Flaminia Saratti</b>	<b>E-mail: flaminia.saratti@unibo.it</b>

<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
1	Adeogun, Ramoni ra@es.aau.dk	DK	
2	Agram, Youssef Youssef.Agram@ulb.be	BE	
3	Agustin, Adrian adrian.agustin@cttc.cat	ES	
4	Ahmadi, Hamed hamed.ahmadi@ucd.ie	IE	
5	Ajmone Marsan, Marco marco.ajmone@imdea.org	ES	

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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
6	Alayón Glazunov, Andrés a.alayonglazunov@utwente.nl	NL	
7	Aleksiejūnas, Rimvydas rimvydas.aleksiejunas@ff.vu.lt	LT	
8	Alexandru, Marian marian.alexandru@unitbv.ro	RO	
9	Ali, Mohammad Furqan ali89@tpu.ru	RU	
10	Alvarez Merino, Carlos carlosalvarezmerino@gmail.com	ES	Carlos Álvarez 
11	Ambroziak, Slawomir slawomir.ambroziak@pg.edu.pl	PL	Slawomir J. Ambroziak 
12	Amorosa, Lorenzo Mario lorenzomario.amorosa@unibo.it	IT	Amorosa Lorenzo 

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
13	Anton-Haro, Carles carles.anton@cttc.es	ES	
14	ARSLAN, Hüseyin arслан.usf@gmail.com	TR	
15	Asenov, Tatjana tatjana.asenov@sonova.com	CH	
16	Assanovich, Boris bas@grsu.by	BY	
17	AYDIN, Metin Mutlu metinmutluaydin@gmail.com	TR	
18	Baena Martinez, Eduardo baenaedu@uma.es	ES	
19	Bajić, Dragana dragana.bajic@gmail.com	RS	

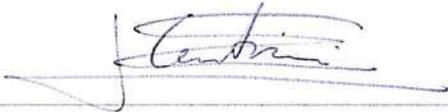
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<b>Nr.</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
20	Balan, Titus Constantin titus.balan@unitbv.ro	RO	
21	Barbiroli, Marina marina.barbiroli@unibo.it	IT	
22	Bas, Joan joan.bas@cttc.es	ES	
23	Bazzi, Alessandro alessandro.bazzi@unibo.it	IT	
24	Beach, Mark m.a.beach@bristol.ac.uk	UK	
25	Becker, Dennis dennis.becker@dlr.de	DE	
26	Berbakov, Lazar lazar.berbakov@pupin.rs	RS	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
27	Bhatia, Gurjot Singh gsbhatia@siradel.com	FR	
28	Blazek, Thomas thomas.blazek@silicon-austria.com	AT	
29	Boban, Mate mate.boban@huawei.com	DE	
30	Bota, Vasile Vasile.Bota@com.utcluj.ro	RO	
31	Boujnoui, Ahmed ahmed.boujnoui@alu.uclm.es	ES	
32	Brennan, Conor conor.brennan@dcu.ie	IE	
33	Brida, Peter peter.brida@feit.uniza.sk	SK	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
34	Bronckers, Sander l.a.bronckers@tue.nl	NL	
35	buracchini, enrico enrico.buracchini@telecomitalia.it	IT	
36	Buratti, Chiara c.buratti@unibo.it	IT	
37	Burr, Alister alister.burr@york.ac.uk	UK	
38	Cantizani Estepa, Juan jce@ic.uma.es	ES	
39	Carciofi, Claudia ccarciofi@fub.it	IT	
40	Cardona, Narcis ncardona@iteam.upv.es	ES	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
41	Cardoso, Filipe filipe.cardoso@estsetubal.ips.pt	PT	
42	Carvalho, Afonso afonsolxp@gmail.com	PT	
43	Castelló Palacios, Sergio sercasp@iteam.upv.es	ES	
44	Cavallero, Sara s.cavallero@unibo.it	IT	<i>Sara Cavallero</i>
45	Chatzimisios, Periklis pchatzimisios@ihu.gr	EL	
46	Chatzinotas, Symeon schatzin@ieee.org	LU	
47	Chen Hu, Kun kchen@tsc.uc3m.es	ES	

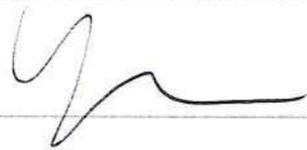
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
48	Chiumento, Alessandro a.chiumento@utwente.nl	NL	
49	Cichoń, Krzysztof krzysztof.cichon@put.poznan.pl	PL	
50	Clavier, Laurent laurent.clavier@imt-nord-europe.fr	FR	
51	Conrat, Jean-Marc jeanmarc.conrat@orange.com	FR	
52	Conserva, Francesca francesca.conserva@unibo.it	IT	
53	Corre, Yoann yocorre@siradel.com	FR	
54	Correia, Luis M luis.m.correia@tecnico.ulisboa.pt	PT	

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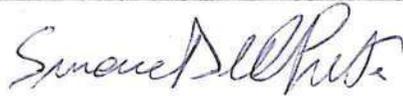
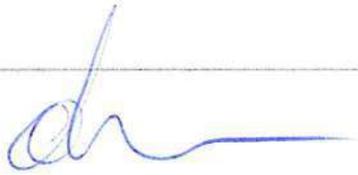
<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
55	Csatho, Botond Tamas csatho.botond@edu.bme.hu	HU	<i>Csatho Botond Tamas</i>
56	Cuozzo, Giampaolo giampaolo.cuozzo@unibo.it	IT	<i>Giampaolo Cuozzo</i>
57	Cwalina, Krzysztof kkcwalina@eti.pg.edu.pl	PL	
58	Czaniera, Daniel daniel.czaniera@tu-ilmenau.de	DE	
59	Czapiewska, Agnieszka agnieszka.czapiewska@pg.edu.pl	PL	<i>Czapiewska</i>
60	Czylwik, Andreas czylwik@nts.uni-duisburg-essen.de	DE	
61	d'Orey, Pedro pdorey@fe.up.pt	PT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
62	Dakic, Anja anja.dakic@ait.ac.at	AT	
63	Dardari, Davide ddardari@ieee.org	IT	
64	Das, Kallol kallol.das@tno.nl	NL	
65	De Bast, Sibren debastsibren@gmail.com	BE	
66	De Beelde, Brecht Brecht.DeBeelde@UGent.be	BE	
67	Decarli, Nicolo nicolo.decarli@ieiit.cnr.it	IT	
68	Degli-Esposti, Vittorio v.degliesposti@unibo.it	IT	

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**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr.	Participant	Country	Signature
69	del Peral-Rosado, Jose A. Jose_Antonio.del_Peral_Rosado@airbus.com	DE	
70	Del Prete, Simone simone.delprete4@unibo.it	IT	
71	Demey, Simon simon.demey@uclouvain.be	BE	
72	Deruyck, Margot margot.deruyck@ugent.be	BE	
73	Di Cicco, Nicola nicola.dicicco@polimi.it	IT	
74	Dittmann, Lars ld@com.dtu.dk	DK	
75	Dupleich, Diego diego-andres.dupleich@tu-ilmenau.de	DE	

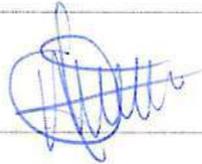
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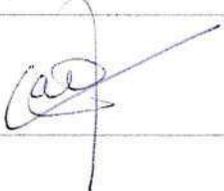
Nr	Participant	Country	Signature
76	Ebadi, Zohreh zohreh.ebadi@ulb.be	BE	
77	Ekman, Torbjörn torbjorn.ekman@ntnu.no	NO	
78	El-faitori, Saied saied.o.el-faitori@durham.ac.uk	UK	
79	Fan, Wei wfa@es.aau.dk	DK	
80	Ferreira, Manuel manuel.ferreira@estsetubal.ips.pt	PT	
81	Ferretti, Danila danila.ferretti@unibo.it	IT	<i>saie ferretti</i>
82	Fontanesi, Gianluca gianluca.fontanesi@ucdconnect.ie	IE	

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Nr	Participant	Country	Signature
83	Fortes Rodríguez, Sergio sfr@ic.uma.es	ES	
84	Fuschini, Franco franco.fuschini@unibo.it	IT	
85	Gaidamaka, Yuliya ygaidamaka@mail.ru	RU	
86	Gaillot, Davy davy.gaillot@univ-lille.fr	FR	
87	Garcia Armada, Ana agarcia@tsc.uc3m.es	ES	
88	Garcia-Pardo, Concepcion cgpardo@iteam.upv.es	ES	
89	Gardasevic, Gordana gordana.gardasevic@etf.unibl.org	BA	

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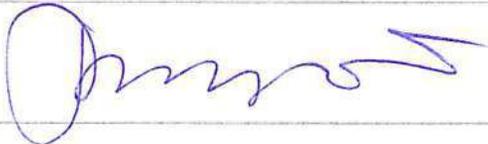
<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
90	Ghiaasi, Golsa golsa.ghiaasi@silicon-austria.com	AT	
91	Gijon Martin, Carolina cgm@ic.uma.es	ES	
92	Gontier, Quentin quentin.gontier@ulb.be	BE	
93	González-Serrato, Nuria nuriag@ic.uma.es	ES	
94	Grazioso, Paolo pgrazioso@fub.it	IT	
95	Guerra, Anna anna.guerra@ieiit.cnr.it	IT	
96	Guerra-Gómez, Rolando rolando.guerra@upc.edu	ES	

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**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
97	Guidi, Francesco francesco.guidi@ieiit.cnr.it	IT	
98	Guzey, Haci Mehmet mehmet.guzey@sivas.edu.tr	TR	
99	GUZEY, Nurbanu nurbanuguzey@gmail.com	TR	
100	Haddad, Yoram haddad@g.jct.ac.il	IL	
101	Hadziaganovic, Armin armin.hadziaganovic@silicon-austria.com	AT	
102	Haneda, Katsuyuki katsuyuki.haneda@aalto.fi	FI	
103	Hannotier, Cédric cedric.hannotier@ulb.be	BE	

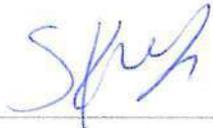
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
104	Hassan, Nina nina.hassan@tu-ilmenau.de	DE	
105	Hofer, Markus markus.hofer@ait.ac.at	AT	
106	Horvath, Balint horvath.balint@vik.bme.hu	HU	
107	Hron, Petr hronpetr@fel.cvut.cz	CZ	
108	Ioannou, Christiana cioannou@cs.ucy.ac.cy	CY	
109	Ivashina, Marianna marianna.ivashina@chalmers.se	SE	
110	Jämsä, Tommi tommi.jamsa@huawei.com	DE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
111	Javornik, Tomaž tomaz.javornik@ijs.si	SI	
112	Jayakody Arachchilage, Dushantha Nalin Kumara nalin.jayakody@ieee.org	RU	
113	Jorge, Luísa ljorge@ipb.pt	PT	
114	Joseph, Wout wout.joseph@ugent.be	BE	
115	JUAN-LLACER, LEANDRO leandro.juan@upct.es	ES	
116	Katzis, Konstantinos K.Katzis@euc.ac.cy	CY	
117	Khatib, Emil emil@uma.es	ES	

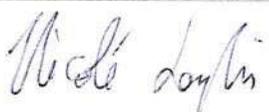
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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
118	Kliks, Adrian adrian.kliks@put.poznan.pl	PL	
119	Kocan, Enis enisk@ucg.ac.me	ME	
120	Kocevska, Teodora teodora.kocevska@ijs.si	SI	
121	Kodra, Silvi silvi.kodra2@unibo.it	IT	
122	Kotterman, Wim wim.kotterman@tu-ilmenau.de	DE	
123	KOZA, Yvette yvette.koza@zte.com.cn	CN	
124	Krasniqi, Bujar bujar.krasniqi@uni-pr.edu	KV	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
125	Kulakowski, Pawel kulakowski@agh.edu.pl	PL	
126	Kürner, Thomas kuerner@ifn.ing.tu-bs.de	DE	
127	Kyösti, Pekka pekka.kyosti@keysight.com	FI	
128	Lager, Ioan Ernest i.e.lager@tudelft.nl	NL	
129	Larsson, Christina christina.c.larsson@ericsson.com	SE	
130	Lehne, Per Hjalmar per-hjalmar.lehne@telenor.com	NO	
131	Li, Jian calvin.li@huawei.com	CN	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
132	Li, Mengting mengli@es.aau.dk	DK	
133	li, wenbin liwenbin@bjtu.edu.cn	CN	
134	Lieti, Valerio valerio.lieti@gmail.com	IT	
135	Linsalata, Francesco francesco.linsalata@polimi.it	IT	
136	Liotou, Eirini eirini.liotou@iccs.gr	EL	
137	Lipovac, Adriana adriana.lipovac@unidu.hr	HR	
138	Longhi, Nicolo nicolo.longhi@unibo.it	IT	

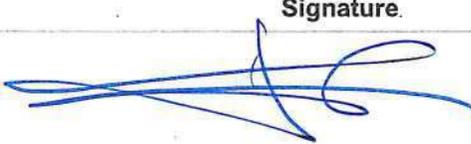
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Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
139	Lyu, Yejian yely@es.aau.dk	DK	
140	Magarini, Maurizio maurizio.magarini@polimi.it	IT	
141	Mallik, Mohammed mohammed.mallik.etu@univ-lille.fr	FR	
142	Maret, Yann yann.maret@hefr.ch	CH	
143	Marini, Riccardo r.marini@unibo.it	IT	
144	Mbugua, Allan Wainaina allan.mbugua@huawei.com	DE	
145	Mecklenbrauker, Christoph cfm@tuwien.ac.at	AT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
146	Meo, Michela michela.meo@polito.it	IT	
147	Merenda, Massimo massimo.merenda@ait.ac.at	AT	
148	Miao, Yang y.miao@utwente.nl	NL	
149	Mignardi, Silvia silvia.mignardi@unibo.it	IT	<i>Silvia Mignardi</i>
150	Mihaljević, Ante ante.mihaljevic@unidu.hr	HR	
151	Mikhaylov, Konstantin konstantin.mikhaylov@oulu.fi	FI	
152	Mlinar, Tomi tomi.mlinar@fe.uni-lj.si	SI	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
153	Molina-Garcia-Pardo, Jose-Maria josemaria.molina@upct.es	ES	
154	Muzaffar, Raheeb raheeb.muzaffar@silicon-austria.com	AT	
155	Myint, Saw James saw-james.myint@tu-ilmenau.de	DE	
156	Narandzic, Milan orange@uns.ac.rs	RS	
157	Navarro, Andres anavarro@icesi.edu.co	CO	
158	Nguyen, Sinh sinh.l.nguyen@ericsson.com	SE	
159	Orozco, Luis luis.orozco@uclm.es	ES	

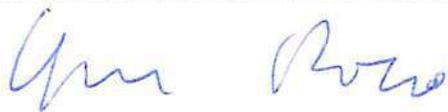
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
160	Oujezsky, Vaclav oujezsky@fi.muni.cz	CZ	
161	Ozdemir, Mehmet Kemal mkozdemir@medipol.edu.tr	TR	
162	Özkaynak, Fatih ozkaynak@firat.edu.tr	TR	
163	Pamp, Jörg pamp@ihf.rwth-aachen.de	DE	
164	Papaj, Ján jan.papaj@tuke.sk	SK	
165	Pasic, Faruk faruk.pasic@tuwien.ac.at	AT	
166	Pasolini, Gianni gianni.pasolini@unibo.it	IT	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
167	Patrício, Sofia sofiaduartepatr@gmail.com	PT	
168	Pedersen, Troels troels@es.aau.dk	DK	
169	Pejanovic-Djurisic, Milica milica@ucg.ac.me	ME	
170	Peñaherrera, Oswaldo sppulla@ic.uma.es	ES	
171	Petrini, Valeria vpetrini@fub.it	IT	
172	Polak, Ladislav polakl@feec.vutbr.cz	CZ	
173	Quitin, Francois fquitin@ulb.be	BE	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
174	Radovic, Danilo danilo.radovic@tuwien.ac.at	AT	
175	Rainer, Benjamin benjamin.rainer@ait.ac.at	AT	
176	Rajchowski, Piotr piorajch@eti.pg.edu.pl	PL	
177	Raspopoulos, Marios mraspopoulos@gmail.com	CY	
178	Rizzo, Gianluca gianluca.antonio.rizzo@gmail.com	CH	
179	Rudd, Richard richard.rudd@plumconsulting.co.uk	UK	
180	Ruiz Boqué, Silvia silvia.ruiz@upc.edu	ES	

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Nr	Participant	Country	Signature
181	Saito, Kentaro saitouken@ide.titech.ac.jp	JP	
182	Salous, Sana sana.salous@durham.ac.uk	UK	
183	Samouylov, Konstantin ksam@sci.pfu.edu.ru	RU	
184	Sanchez Martin, Joaquin M. jmsanchez@ic.uma.es	ES	
185	SANDIKKAYA, Mehmet Tahir sandikkaya@itu.edu.tr	TR	
186	Sarcone Grande, Nicol nicol.sarcone96@gmail.com	IT	
187	sarrazin, Julien julien.sarrazin@upmc.fr	FR	

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**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
188	Sayrafian, Kamran kamran.sayrafian@nist.gov	US	
189	Schiffarth, Anna-Malin schiffarth@ihf.rwth-aachen.de	DE	
190	Schneider, Christian christian.schneider@tu-ilmenau.de	DE	
191	Schumacher, Laurent laurent.schumacher@unamur.be	BE	
192	Schwarz, Stefan stefan.schwarz@tuwien.ac.at	AT	
193	Seco-Granados, Gonzalo gonzalo.seco@uab.cat	ES	
194	Siriwardhana, Yushan yushan.siriwardhana@oulu.fi	FI	

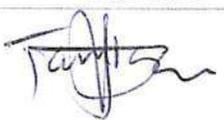
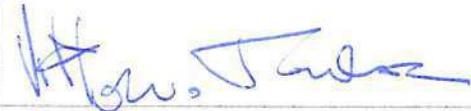
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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
195	Skachek, Vitaly vitaly.skachek@gmail.com	EE	
196	Skocaj, Marco marco.skocaj@unibo.it	IT	
197	Skrivervik, Anja anja.skrivervik@epfl.ch	CH	
198	Sommerkorn, Gerd som@tu-ilmenau.de	DE	
199	Spampinato, Leonardo leonardo.spampinato@studio.unibo.it	IT	
200	Sroka, Pawel pawel.sroka@put.poznan.pl	PL	
201	Steinboeck, Gerhard Gerhard.steinboeck@ericsson.com	SE	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
202	Struyf, Amélia amelia.struyf@ulb.be	BE	
203	Stuebner, Ralph ralph.stuebner@cost.eu	XI	
204	Sykora, Jan jan.sykora@fel.cvut.cz	CZ	
205	Szini, Istvan istvanszini@gmail.com	DK	
206	Takada, Jun-ichi takada@ide.titech.ac.jp	JP	
207	Taramit, Hamid hamid.taramit@alu.uclm.es	ES	
208	Tarozzi, Alessia alessia.tarozzi@studio.unibo.it	IT	

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<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
209	Tarrias, Antonio atm@ic.uma.es	ES	
210	Teixeira, Emanuel etsbg@hotmail.com	PT	
211	TESFAY, Angesom angesom.tesfay@imt-nord-europe.fr	FR	
212	Thielecke, Lennart thielecke@ifn.ing.tu-bs.de	DE	
213	Thomä, Reiner reiner.thomae@tu-ilmenau.de	DE	
214	Todisco, Vittorio vittorio.todisco@unibo.it	IT	
215	Torrico, Saul storrico@comsearch.com	US	

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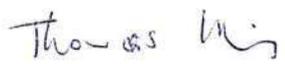
Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)			
Nr	Participant	Country	Signature
216	Torun, Buket torunbuket@gmail.com	IT	
217	Tufvesson, Fredrik fredrik.tufvesson@eit.lth.se	SE	
218	Ulmschneider, Markus markus.ulmschneider@dlr.de	DE	
219	Unterhuber, Paul paul.unterhuber@dlr.de	DE	
220	Valbonesi, Simona svalbonesi@fub.it	IT	
221	Vallero, Greta greta.vallero@polito.it	IT	
222	Vassiliou, Vasos vasosv@cs.ucy.ac.cy	CY	

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**Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)**

Nr	Participant	Country	Signature
223	VELEZ, Fernando José fjv@ubi.pt	PT	
224	Verdone, Roberto roberto.verdone@unibo.it	IT	
225	Villemaud, Guillaume guillaume.villemaud@insa-lyon.fr	FR	
226	Vitucci, Enrico Maria enricomaria.vitucci@unibo.it	IT	
227	Vouyioukas, Demosthenes dvouyiou@aegean.gr	EL	
228	Vukobratovic, Dejan dejanv@uns.ac.rs	RS	
229	Wagen, Jean Frederic jean-frederic.wagen@hefr.ch	CH	

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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
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<b>Working Group - Working Group Meeting (Start Date: 2022-02-09 End Date: 2022-02-11)</b>			
<b>Nr</b>	<b>Participant</b>	<b>Country</b>	<b>Signature</b>
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# INTERACT

Bologna, Italy, 9-11 February 2022

**Subject:** WGs Chairs Reports of the 2<sup>nd</sup> Management Committee Meeting and 1<sup>st</sup> Technical Meeting of COST Action CA20120 “The Intelligence-Enabling Radio Communications for Seamless Inclusive Interactions (INTERACT)”

## 1. WG1

We had 5 WG1 sessions, 3 of which were joint session with VT4, VT2 and WG2.

Main lines of research are:

- studies on higher frequencies (mm-wave and THz, including material, vegetation and diffuse scattering measurements, new MIMO channel sounders including virtual array setups)
- studies of beamforming performance in various propagation environments
- stochastic geometry propagation models, ray-based propagation simulation tools, ITU standard propagation models
- vehicular propagation measurements and models, including those for train to train and air to ground environments
- propagation modelling for reconfigurable intelligent surfaces

We approved the proposal of having periodic presentations by well-known experts from both Standardization Bodies and the Academy aimed at reducing the gap between the industrial/standardization point of view and the academic point of view on propagation/channel models.

We had a discussion on SWGs that resulted in the approval of an SWG on “mm-wave and THz channel sounding” and in the proposal of 2 SWGs on “Scattering and propagation for RIS/LIS” and “Integrated Communication and Sensing”. The latter SWG could even be a WG2 SWG or a common WG1/WG2 SWG, if possible. We are sounding interest on both topics: we will circulate an email on the WG1 email reflector as soon as available.

We proposed and approved collaboration between COST WG1 and EurAAP WG9 “Propagation”: mutual links to websites, information flow between the two groups, joint initiatives such as making the annual ESoA course on Propagation also a COST training school, as we did in 2019.



# INTERACT

## 2. Sub\_WG1 – THz

There were in total 4 TDs on sub-THz channel sounding activities, plus many others in joint sessions with WG1. The focus of the TDs ranged from advanced set-ups and calibration of channel sounders to measurement in complex scenarios. Contribution from TU Ilmenau focused on methods for validation of delay measurements and estimation at 187.5 GHz. Work from Ghent University focused on vegetation loss from 110 to 170 GHz. VNA-based measurements in indoor scenarios were reported by Huawei on pathloss results covering 140 to 220 GHz. A novel sub-THz VNA based channel sounder was reported, which can support phase-coherent measurements from 220 to 330 GHz. Also work from Aalborg University proposed a novel virtual array scheme based on directive antennas, which is shown to offer excellent channel estimation results. There were also a multiple TDs reporting measurements at mmWave bands. Work from Durham University reported reflection and penetration loss measurements in building materials. Work from Bologna University reported preliminary results on outdoor drone pathloss measurement results. We expect to receive many contributions to these topics in the future. We had also a discussion on the different challenges on the creation and sharing of measurement data, which continued offline and will be addressed in the next meetings.

## 3. WG2

There were 9 TDs to WG2, plus 8 in joint session with WG1. About half focussed on localisation, the others on various PHY/propagation issues (inc underwater comms, reconfigurable intelligent surfaces), Many applied machine learning, particularly in localisation. Also 5 in joint session with WG3/VT4, on radio access networks.

We will know more about the topics of interest in the next meetings, but these seem to be representative of common research interests.

We had a discussion session for WG2, especially about the challenges where we would like to focus. The following are some initial ones:

Create / share Data sets

Define benchmarks, parameters and common framework to ease comparison and cooperation

Find ML – classical optimization trade-offs and synergies



# INTERACT

Successful interaction and sharing of information / models with WG1 and WG3

In the following meetings we aim to start defining how to approach them.

One joint session with WG1 also included discussion of a potential SWG on integrated communication and sensing – this is clearly of interest to WG2 also

## **4. WG3**

WG3 report COST INTERACT, Bologna

In Bologna three standalone WG3 sessions with 14 TDs in total, and two joint sessions (one with VT2 and another with WG2/VT4) with 9 TDs in were organised. The presented TDs covered a broad range of topics around network planning, media access, network parameters optimization and end-to-end performance measurement, and novel use cases and applications (especially in the context of smart city/IoT and transportation). Several of the papers employed machine learning; its use for network routing and capacity and coverage optimization was demonstrated. A number of the TDs focused on connectivity for/by drones and within intelligent transportation systems. During the short discussion session, the further plans and open opportunities (e.g., for training schools, STSMs and joint workshops) have been highlighted and discussed. Among the perspective challenges to be addressed in the future are:

1. Data sets creation and sharing
2. ML solutions for network planning, performance characterization and optimization
3. Novel communication protocols and topologies based on the requirements of verticals and novel PHY layers (e.g., THz)
4. Advanced network simulation tools
5. Beyond 5G networking evolution

## **5. VT1**

During the INTERACT 2<sup>nd</sup> MC Meeting and 1<sup>st</sup> Technical Meeting the VT1: Health and Well-Being held one session with 5 TDs and one joint session with SWG on EMF. There were 18 attendees on-site and 25 attendees on-line. A summary of the presentations and discussions is provided in the following.

**February 10<sup>th</sup> (14:00-15:40)**



# INTERACT

During this session five TDs (no. 29, 66, 20, 33 and 73) were presented. The first TD (no. 29) aimed to identify the communication requirements for mass deployment of smart healthcare sensors by providing an overview of the underlying Internet of Things (IoT) technologies. The TD highlighted the importance of information theory in understanding the limits and barriers in this emerging field. It also indicated how data compression and entropy used in security algorithms may pave the way towards mass deployment of IoT devices in healthcare. The future medical practices and paradigms were also discussed in the TD. The second TD (no. 66) presented a network architecture for a system aimed at diagnosis and treatment of cardiovascular events. The system focuses on problems related to pulmonary artery occlusion, i.e., situations of artery blockage by a blood clot. The proposed system is based on bio-sensors for detection of artery blockage and bio-actuators for releasing appropriate medicines, both types of devices being implanted in pulmonary arteries. The system can be used by a person leading an active life and provides bidirectional communication with medical personnel via nano-nodes circulating in the bloodstream constituting an in-body area network. An analytical model was derived for calculating the required number of nano-nodes to detect artery blockage and the probability of activating a bio-actuator. In addition, an analysis of the performance of the body area network component of the system in terms of path loss and of wireless links budget has been performed. In the third TD (no. 20) a measurement campaign for off-body communications in an indoor environment was presented for a set of on-body antennas. The channel impulse response was measured with the user approaching and departing from an off-body fixed antenna using two user dynamics: standing at fixed positions and walking. The system loss statistics were investigated, and different antenna configurations were classified in terms of mobility and visibility depending on on-body antenna placements. The aim of the fourth TD (no. 33) was the analysis of the effect of breathing on the propagation channel for ingestible and implantable devices by means of in vivo measurements in a living animal. Continuous wave measurements have been carried out for five different frequencies in the lower part of the UWB band, and the effects of breathing on the relative received power are analysed and discussed. The last TD (no. 73) presented a system for detecting victims by means of a terrestrial search and rescue (SAR) robot. A real implementation of a close detection robotic platform based on BLE for SAR interventions was laid out. To estimate the distance between a robotic agent and potential victims within an experimental area, a log-distance path loss model was presented. The proposed scheme has been tested in realistic scenarios during SAR exercises.

A VT1 discussion was held during the session on Feb. 11. The summary of the discussed topics is provided in the following.



# INTERACT

## 1. Challenges

List of the challenges addressed:

- Radio channel modelling in Body Area Networks
- Nano-networks and their interface with BAN
- Data transmission requirements for wearable medical devices
- Search and rescue localization based on BLE

This list will be continually updated based on the future TDs and technical activities of the VT1 members.

## 2. Training schools

### a) *Executed*

- None.

### b) *Planned*

- None.

VT1 members were asked to send information on planned or executed training schools to the Track Chairs.

## 3. Short Term Scientific Missions among participant institutions

### c) *Executed*

- None.

### d) *Planned*

- None.

VT1 members were asked to send information on planned or executed STSMs to the Track Chairs.

## 4. Joint workshops and special sessions

### a) *Executed*

- None.

### b) *Planned*

- None.



# INTERACT

VT1 members were asked to send information on planned or executed joint workshops and special sessions to the Track Chairs.

## 5. Collaboration

### a) *Ongoing*

- IST and PG: “Off-Body and Body-to-Body Radio Channel Modelling”.

### b) *Planned*

- PG and UPV: “Measurements of the Channel Impulse Response at mmWaves for Conference Networks”,
- EUC and NIST: “Remote Monitoring of Physiological Signals using LoRa”.

VT1 members were asked to send information on planned or ongoing collaboration to the Track Chairs.

## 6. Joint papers (with acknowledgements to INTERACT)

### a) *Published*

- None.

### b) *Planned*

- F.D. Cardoso, M.M. Ferreira, S.J. Ambroziak, L.M. Correia, “Influence of User Mobility and Antenna Placement on System Loss in B2B Networks” – submitted,
- S.J. Ambroziak, K.K. Cwalina, P. Rajchowski, F.D. Cardoso, M.M. Ferreira, L.M. Correia, “A Cross-Polarisation Discrimination Analysis of Off-Body Channels in Passenger Ferryboat Environments” – submitted.

VT1 members were asked to send information on accepted and/or published joint papers to the Track Chairs.

## 7. Liaisons

- IEEE P2933 (Konstantinos Katzis),
- IEEE 802.15 TG6a (Kamran Sayrafian),
- URSI: Commission C (Krzysztof Cwalina),
- EurAAP: Working Group on Propagation (Krzysztof Cwalina).

## 8. White papers



# INTERACT

a) *Published*

- None.

b) *Planned*

- None.

VT1 members were asked to send information on planned and/or published white papers to the Track Chairs.

9. Database

There is a need for cooperation with HA1 regarding the creation of a favourable environment to share measurements, simulation scenarios and models inside and outside the Action. The access, storage, format, and sources of data need to be discussed and established.

10. Dissemination

During IRACON a LinkedIn group (*IoT - Health Working Group*) has been created. This group is still active and has 72 members. It can be used as a venue to disseminate VT1 activities.

11. Number of TDs submitted so far

- Feb. 2022, Bologna, Italy: 5 TDs

## 6. **SWG EMF**

The meeting started with the election of the Co-Chairs, followed by the presentation of TDs. There were 7 TDs distributed along 2 sessions, the last one being a joint session with VT1. Four papers dealt with measurements and statistical analysis of EMF data under different circumstances (Covid-19 lockdown, dismantling of legacy technologies for installing 5G systems and influence of active antenna systems). The remaining papers were related to the prediction of EMF using different strategies, the calculation of an exclusion zone in the presence of active antennas on 5G base stations and the optimisation of base stations in a city according to EMF restrictions. After TDs presentations, there was discussion about the objectives, and the kick-off of the work. It was agreed to create a mailing list separated from VT1. The discussion addressed also the ICNIRP recommendations that should be followed (the 2020 ones are not included in national/European recommendations so far).



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## 7. VT2

The second vertical theme (VT2) focuses on advances in modern transportation. The importance of this topic was confirmed soundly in Bologna, showing the interpenetration with WG1 and WG3. We foresee to keep up this trend to ensure mature cooperation in INTERACT. There were 13 TDs in VT2, with a strong spread of topics, from pure vehicular channel measurements, over emulation and simulation, up to drone-aided communication for V2X networks.

## 8. VT3

In the session for VT3, 4 papers were presented in the subject. Two of the papers were considering industrial Terahertz networks. In this context, the first paper focused on design of a MAC layer protocol for inter-machine communication while the second paper investigated Carrier Sense Multiple Access to industrial IoT. The third paper proposed a framework for energy efficient operation for time-limited contention in the IEEE 802.11ah standard. Finally, the last paper focused on Network Attack Classification in IoT using ML. There was a discussion about steps to take to attract a greater number of papers with industrial use-cases for next meetings.

## 9. VT4

TD discussion occurred in a very participated joint WG2/WG3/VT4 session, moderated by Alister Burr and Fernando J. Velez. The presentation from TD(22)01079, on Flexible radio Access Network Optimization with Cell Coordination, a joint work between UP Catalunya and Aalto University, can be highlighted, as it somehow represents the techno-economic aspects of energy-efficient ultra-dense networks that will be dealt with in Vertical Team 4 (Smart Cities and Buildings).

## 10. HA1

During the last two meetings, the discussion focused on the following topics:

- **Acknowledgment & Citations**

A mechanism for licensing and regulating the use of the data must be defined. Creative Commons (CC) might be a viable solution. To investigate whether CC



# INTERACT

envison the possibility of limiting access only to selected members of a community (e.g., COST), which might be required for some datasets.

- **Storage and Access grants**

During the COST meeting in Bologna, the necessity for some data (e.g., data provided by companies) to be stored in particular locations (e.g., countries or proprietary servers) was discussed. Viceversa, other datasets might even be published on open repositories like *Zenodo*.

Conclusion: Depending on the dataset, it will either be the dataset provider's liability to store the data on a server, or the dataset could be uploaded on open-access repositories like *Zenodo*. HA1 will provide a webpage with links to dataset storage locations.

A mechanism for granting access to selected members only must be defined and implemented (e.g., OTP).

- **Data format and pre-processing**

Every dataset is different. As a consequence, no unique format is required. Nevertheless, a standardized-format README file should be provided to describe the dataset thoroughly. The README file format is t.b.d.

- **Lifetime of the data**

Datasets should also be available after the four years of COST action. A potential solution might be continuity with EURACON.

- **Competitions**

The idea of organizing ML competitions with the dataset at our disposal was proposed.

Undertaken actions:

1. (23/02/2022) Call for datasets is open: WG chairs should contact WG members (e.g., via e-mail reflector) to notify them about the open call. Contributions from all members should be collected by the 2<sup>nd</sup> of May and summarized in a Word document (see e-mail) by WG chairs. This action aims to start collecting proposals to define lists of users interested in working on datasets (also for competitions).