

Co-authored Action publications

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	Bibliographic data	Countries participating in the Action among authors	Open Access	COST cited?	COST funds?	Relevance to H2020 Societal challenge	Peer Reviewed?
1	doi:10.1371/journal.pone.0260060 Title Opal: An open source ray-tracing propagation simulator for electromagnetic characterization Authors Esteban Egea-Lopez; Jose Maria Molina-Garcia-Pardo; Martine Lienard; Pierre Degauque DOI doi:10.1371/journal.pone.0260060 Type Journal article Published in PLOS ONE Published by Public Library of Science (PLoS) ISSN 1932-6203 Subject Multidisciplinary Link https://dx.plos.org/10.1371/journal.pone.0260060		Other	Y	Y		Y
2	doi:10.1109/TITS.2022.3199159 Title Wireless Channel Analysis Between 25 and 40 GHz in an Intra-Wagon Environment for 5G Using a Ray-Tracing Tool Authors Juan Pascual-Garcia; Lorenzo Rubio; Vicent M. Rodrigo Penarrocha; Leandro		Other	Y	Y		Y

	DOI Type Published in Published by ISSNs Subjects Link	Juan-Llacer; Jose-Maria Molina-Garcia-Pardo; Concepcion Sanchis-Borras; Juan Reig doi:10.1109/TITS.2022.3199159 Journal article IEEE Transactions on Intelligent Transportation Systems Institute of Electrical and Electronics Engineers (IEEE) 1524-9050; 1558-0016 Computer Science Applications; Mechanical Engineering; Automotive Engineering http://xplore.staging.ieee.org/ielx7/6979/9972869/09868202.pdf?arnumber=9868202						
3	doi:10.3390/s22249643 Title Authors DOI Type Published in Published by ISSN Subjects Link	Towards Outdoor Electromagnetic Field Exposure Mapping Generation Using Conditional GANs Mohammed Mallik; Angesom Ataklity Tesfay; Benjamin Allaert; Redha Kassi; Esteban Egea-Lopez; Jose-Maria Molina-Garcia-Pardo; Joe Wiart; Davy P. Gaillot; Laurent Clavier doi:10.3390/s22249643 Journal article Sensors MDPI AG 1424-8220 Electrical and Electronic Engineering; Biochemistry; Instrumentation; Atomic and Molecular Physics, and Optics; Analytical Chemistry https://www.mdpi.com/1424-8220/22/24/9643/pdf		Other	Y	Y		Y
4	doi:10.1109/TAP.2023.3262639 Title	UTD-Based Ray-Tracing MIMO Channel Modeling for the Next-Generation Communications Within Underground		Other	Y	Y		Y

	Authors DOI Type Published in Published by ISSNs Subject Link	Tunnels Mohamad Ghaddar; José-María Molina-García-Pardo; Ismail Ben Mabrouk; Martine Lienard; Pierre Degauque doi:10.1109/TAP.2023.3262639 Journal article IEEE Transactions on Antennas and Propagation Institute of Electrical and Electronics Engineers (IEEE) 0018-926X; 1558-2221 Electrical and Electronic Engineering http://xplore.staging.ieee.org/ielx7/8/10142148/10090447.pdf?arnumber=10090447						
5	doi:10.48550/arXiv.2304.12745 Title Authors DOI Type Published in Published by	Deep Unfolding for Fast Linear Massive MIMO Precoders under a PA Consumption Model Thomas Feys; Xavier Mestre; Emanuele Peschiera; François Rottenberg doi:10.48550/arXiv.2304.12745 Journal article arXiv arXiv		Other	Y	Y		Y
6	doi:10.48550/arXiv.2210.07037 Title Authors DOI Type Published by	Self-Supervised Learning of Linear Precoders under Non-Linear PA Distortion for Energy-Efficient Massive MIMO Systems Thomas Feys; Xavier Mestre; François Rottenberg doi:10.48550/arXiv.2210.07037 Article arXiv		Other	Y	Y		Y
7	doi:10.1109/EuCNC/6GSummit54941.2022.9815707 Title	Mobility's Influence on System Loss in Off-Body BAN Scenarios		Other	Y	Y		Y

	Authors DOI Type Published in Published by Link	Manuel M. Ferreira; Filipe D. Cardoso; Slawomir J. Ambroziak; Kenan Turbic; Luis M. Correia doi:10.1109/EuCNC/6GSummit54941.2022.9815707 Proceedings article 2022 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit) IEEE http://xplore.staging.ieee.org/ielx7/9815454/9815565/09815707.pdf?arnumber=9815707						
8	doi:10.1109/ACCESS.2022.3175009 Title Authors DOI Type Published in Published by ISSN Subjects Link	A Cross-Polarisation Discrimination Analysis of Off-Body Channels in Passenger Ferryboat Environments Slawomir J. Ambroziak; Krzysztof K. Cwalina; Piotr Rajchowski; Filipe D. Cardoso; Manuel M. Ferreira; Luis M. Correia doi:10.1109/ACCESS.2022.3175009 Journal article IEEE Access Institute of Electrical and Electronics Engineers (IEEE) 2169-3536 General Engineering; General Materials Science; General Computer Science http://xplore.staging.ieee.org/ielx7/6287639/9668973/09774373.pdf?arnumber=9774373		Other	Y	Y		Y
9	doi:10.1109/ACCESS.2022.3163859 Title Authors DOI	Influence of User Mobility and Antenna Placement on System Loss in B2B Networks Manuel M. Ferreira; Filipe D. Cardoso; Slawomir J. Ambroziak; Luis M. Correia doi:10.1109/ACCESS.2022.3163859		Other	Y	Y		Y

	Type Published in Published by ISSN Subjects Link	Journal article IEEE Access Institute of Electrical and Electronics Engineers (IEEE) 2169-3536 General Engineering; General Materials Science; General Computer Science; Electrical and Electronic Engineering http://xplore.staging.ieee.org/ielx7/6287639/9668973/09745619.pdf?arnumber=9745619						
10	doi:10.15199/59.2022.4.91 Title Author DOI Type Published in Published by ISSN Subject Link	ANALIZA ZANIKÓW SZYBKOSMIENNYCH W RADIOWYCH SIECIACH BAN PRACUJĄCYCH W REWERBERACYJNYM ŚRODOWISKU PROPAGACYJNYM Sławomir Ambroziak doi:10.15199/59.2022.4.91 Journal article PRZEGLĄD TELEKOMUNIKACYJNY - WIADOMOŚCI TELEKOMUNIKACYJNE Wydawnictwo SIGMA-NOT, sp. z.o.o. 1230-3496 General Materials Science https://sigma-not.pl/publikacja-139024-2022-4.html		Other	Y	Y		Y
11	doi:10.1109/ACCESS.2023.3249466 Title Authors DOI Type Published in Published by ISSN	Bandwidth Dependence of the Propagation Channel in Circular Metallic BAN Environments Manuel M. Ferreira ; Filipe D. Cardoso ; Sławomir J. Ambroziak ; Luis M. Correia doi:10.1109/ACCESS.2023.3249466 Journal article IEEE Access Institute of Electrical and Electronics Engineers (IEEE) 2169-3536		Other	Y	Y		Y

	Subjects	General Engineering; General Materials Science; General Computer Science; Electrical and Electronic Engineering					
	Link	http://xplore.staging.ieee.org/ielx7/6287639/10005208/10054032.pdf?arnumber=10054032					
12	doi:10.1109/JIOT.2022.3176394			Other	Y	Y	Y
	Title	Low-Power Wide-Area Networks: Comparison of LoRaWAN and NB-IoT Performance					
	Authors	Riccardo Marini ; Konstantin Mikhaylov ; Gianni Pasolini ; Chiara Buratti					
	DOI	doi:10.1109/JIOT.2022.3176394					
	Type	Journal article					
	Published in	IEEE Internet of Things Journal					
	Published by	Institute of Electrical and Electronics Engineers (IEEE)					
	ISSNs	2327-4662 ; 2372-2541					
	Subjects	Computer Networks and Communications; Computer Science Applications; Hardware and Architecture; Information Systems; Signal Processing					
	Link	http://xplore.staging.ieee.org/ielx7/6488907/9926222/09778216.pdf?arnumber=9778216					
13	doi:10.23919/EuCAP57121.2023.10133323			Other	Y	Y	Y
	Title	Spatial/Temporal Characterization of Propagation and Blockage from Measurements at sub-THz in Industrial Machines					
	Authors	Diego Dupleich; Alexander Ebert; Yanneck Völker-Schöneberg; Leon Löser; Mate Boban; Reiner Thomä					
	DOI	doi:10.23919/EuCAP57121.2023.10133323					
	Type	Proceedings article					
	Published in	2023 17th European Conference on Antennas and Propagation (EuCAP)					
	Published by	IEEE					

	Link	http://xplore.staging.ieee.org/ielx7/10132843/10132844/10133323.pdf?arnumber=10133323					
14	doi:10.1109/Metamaterials54993.2022.9920805 Title Authors DOI Type Published in Published by Link	Finite Element Method-based Analysis of Controlled Reflections from RIS B. T. Csatho; B. P. Horvath doi:10.1109/Metamaterials54993.2022.9920805 Proceedings article 2022 Sixteenth International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials) IEEE http://xplore.staging.ieee.org/ielx7/9920725/9920706/09920805.pdf?arnumber=9920805		Other	Y	Y	Y
15	doi:10.1109/TAP.2022.3149660 Title Authors DOI Type Published in Published by ISSNs Subject Link	Reradiation and Scattering From a Reconfigurable Intelligent Surface: A General Macroscopic Model Vittorio Degli-Esposti ; Enrico M. Vitucci ; Marco Di Renzo ; Sergei A. Tretyakov doi:10.1109/TAP.2022.3149660 Journal article IEEE Transactions on Antennas and Propagation Institute of Electrical and Electronics Engineers (IEEE) 0018-926X ; 1558-2221 Electrical and Electronic Engineering http://xplore.staging.ieee.org/ielx7/8/9942673/09713744.pdf?arnumber=9713744		Other	Y	Y	Y
16	doi:10.1109/MCOM.004.2200723 Title	Vehicle-to-Everything (V2X) Datasets for Machine Learning-Based Predictive Quality of Service		Other	Y	Y	Y

	Authors DOI Type Published in Published by ISSNs Subjects Link	Marco Skocaj; Nicola Di Cicco; Tommaso Zugno; Mate Boban; Jiri Blumenstein; Ales Prokes; Tomas Mikulasek; Josef Vychodil; Konstantin Mikhaylov; Massimo Tornatore; Vittorio Degli-Esposti doi:10.1109/MCOM.004.2200723 Journal article IEEE Communications Magazine Institute of Electrical and Electronics Engineers (IEEE) 0163-6804; 1558-1896 Electrical and Electronic Engineering; Computer Networks and Communications; Computer Science Applications http://xplore.staging.ieee.org/ielx7/35/10268118/10268872.pdf?arnumber=10268872						
17	doi:10.1109/TVT.2023.3244653 Title Authors DOI Type Published in Published by ISSNs Subjects Link	Power Allocation for Uplink Communications of Massive Cellular-Connected UAVs Xuesong Cai; István Z. Kovács; Jeroen Wigard; Rafhael Amorim; Fredrik Tufvesson; Preben E. Mogensen doi:10.1109/TVT.2023.3244653 Journal article IEEE Transactions on Vehicular Technology Institute of Electrical and Electronics Engineers (IEEE) 0018-9545; 1939-9359 Electrical and Electronic Engineering; Computer Networks and Communications; Aerospace Engineering; Automotive Engineering http://xplore.staging.ieee.org/ielx7/25/10186246/10043743.pdf?arnumber=10043743		Other	Y	Y		Y
18	doi:10.1109/TWC.2022.3165856 Title	Sequential Detection and Estimation of Multipath Channel Parameters Using		Other	Y	Y		Y

	Authors DOI Type Published in Published by ISSNs Subjects Link	Belief Propagation Xuhong Li; Erik Leitingner; Alexander Venus; Fredrik Tufvesson doi:10.1109/TWC.2022.3165856 Journal article IEEE Transactions on Wireless Communications Institute of Electrical and Electronics Engineers (IEEE) 1536-1276; 1558-2248 Applied Mathematics; Electrical and Electronic Engineering; Computer Science Applications http://xplore.staging.ieee.org/ielx7/7693/9915540/09758644.pdf?arnumber=9758644						
19	doi:10.1109/TAP.2021.3137235 Title Authors DOI Type Published in Published by ISSNs Subject Link	Dynamic mmWave Channel Emulation in a Cost-Effective MPAC With Dominant-Cluster Concept Xuesong Cai; Yang Miao; Jinxing Li; Fredrik Tufvesson; Gert Frolund Pedersen; Wei Fan doi:10.1109/TAP.2021.3137235 Journal article IEEE Transactions on Antennas and Propagation Institute of Electrical and Electronics Engineers (IEEE) 0018-926X; 1558-2221 Electrical and Electronic Engineering http://xplore.staging.ieee.org/ielx7/8/9794936/09664391.pdf?arnumber=9664391		Other	Y	Y		Y
20	doi:10.1109/MCOM.011.2100339 Title Authors	Positioning and Sensing for Vehicular Safety Applications in 5G and Beyond Stefania Bartoletti; Henk Wymeersch; Tomasz Mach; Oliver Brunnegard; Domenico Giustiniano; Peter Hammarberg; Musa Furkan Keskin; Jesus		Other	Y	Y		Y

	DOI Type Published in Published by ISSNs Subjects Link	O. Lacruz; Sara Modarres Razavi; Joakim Ronnblom; Fredrik Tufvesson; Joerg Widmer; Nicola Blefari Melazzi doi:10.1109/MCOM.011.2100339 Journal article IEEE Communications Magazine Institute of Electrical and Electronics Engineers (IEEE) 0163-6804; 1558-1896 Electrical and Electronic Engineering; Computer Networks and Communications; Computer Science Applications http://xplore.staging.ieee.org/ielx7/35/9665418/09665433.pdf?arnumber=9665433					
21	doi:10.1109/EuCNC/6GSummit58263.2023.10188223 Title Authors DOI Type Published in Published by Link	Propagation Modeling for Physically Large Arrays: Measurements and Multipath Component Visibility Thomas Wilding; Benjamin J. B. Deutschmann; Christian Nelson; Xuhong Li; Fredrik Tufvesson; Klaus Witrisal doi:10.1109/EuCNC/6GSummit58263.2023.10188223 Proceedings article 2023 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit) IEEE http://xplore.staging.ieee.org/ielx7/10187889/10188221/10188223.pdf?arnumber=10188223	Other	Y	Y		Y
22	doi:10.1109/EuCNC/6GSummit58263.2023.10188339 Title Authors DOI	Large Intelligent Surface Measurements for Joint Communication and Sensing Christian Nelson; Xuhong Li; Thomas Wilding; Benjamin Deutschmann; Klaus Witrisal; Fredrik Tufvesson doi:10.1109/EuCNC/6GSummit58263.2023.10188339	Other	Y	Y		Y

	Type Published in	Proceedings article 2023 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit)					
	Published by Link	IEEE http://xplore.staging.ieee.org/ielx7/10187889/10188221/10188339.pdf?arnumber=10188339					
23	doi:10.1109/EuCNC/6GSummit58263.2023.10188332 Title	Impact of Array Configuration on Head-Mounted Display Performance at mm Wave Bands	Other	Y	Y		Y
	Authors	Alexander Marinšek; Xuesong Cai; Lieven De Strycker; Fredrik Tufvesson; Liesbet Van der Perre					
	DOI	doi:10.1109/EuCNC/6GSummit58263.2023.10188332					
	Type Published in	Proceedings article 2023 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit)					
	Published by Link	IEEE http://xplore.staging.ieee.org/ielx7/10187889/10188221/10188332.pdf?arnumber=10188332					
24	doi:10.1109/CAMA56352.2022.10002505 Title	A Scatterer Localization Method Using Large-Scale Antenna Array Systems	Other	Y	Y		Y
	Authors	Guojin Zhang; Xuesong Cai; Jesper Odum Nielsen; Gert Frolund Pedersen; Fredrik Tufvesson					
	DOI	doi:10.1109/CAMA56352.2022.10002505					
	Type Published in	Proceedings article 2022 IEEE Conference on Antenna Measurements and Applications (CAMA)					
	Published by Link	IEEE http://xplore.staging.ieee.org/ielx7/10002416/10002429/10002505.pdf?arnumber=10002505					

25	doi:10.1109/EuCNC/6GSummit58263.2023.10188272	Title Depolarisation Model for a BAN Indoor Scenario Authors Manuel M. Ferreira; Filipe D. Cardoso; Sławomir J. Ambroziak; Mariella Särestöniemi; Kenan Turbic; Luís M. Correia DOI doi:10.1109/EuCNC/6GSummit58263.2023.10188272 Type Proceedings article Published in 2023 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit) Published by IEEE Link http://xplore.staging.ieee.org/ielx7/10187889/10188221/10188272.pdf?arnumber=10188272		Other	Y	Y		Y
26	doi:10.23919/URSIGASS57860.2023.10265350	Title Channel Impulse Response Measurements at mmWave Band in Office and Conference Rooms Authors Monika Drozdowska; Sławomir J. Ambroziak; Krzysztof K. Cwalina; Piotr Rajchowski; Narcis Cardona DOI doi:10.23919/URSIGASS57860.2023.10265350 Type Proceedings article Published in 2023 XXXVth General Assembly and Scientific Symposium of the International Union of Radio Science (URSI GASS) Published by IEEE Link http://xplore.staging.ieee.org/ielx7/10265282/10265283/10265350.pdf?arnumber=10265350		Other	Y	Y		Y
27	doi:10.1109/EuCNC/6GSummit58263.2023.10188238	Title Data collection from LoRaWAN sensor network by UAV gateway: design, empirical results and dataset Authors Gianmarco Canello; Silvia Mignardi;		Other	Y	Y		Y

	DOI Type Published in Published by Link	Konstantin Mikhaylov; Chiara Buratti; Tuomo Hänninen doi:10.1109/EuCNC/6GSummit58263.2023.10188238 Proceedings article 2023 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit) IEEE http://xplore.staging.ieee.org/ielx7/10187889/10188221/10188238.pdf?arnumber=10188238						
28	doi:10.1109/LCOMM.2023.3291594 Title Authors DOI Type Published in Published by ISSNs Subjects Link	Asynchronous WPNC With DFT Precoding and Symbol-Spaced Processing Petr Hron ; Jan Sykora ; Laurent Clavier doi:10.1109/LCOMM.2023.3291594 Journal article IEEE Communications Letters Institute of Electrical and Electronics Engineers (IEEE) 1089-7798 ; 1558-2558 ; 2373-7891 Electrical and Electronic Engineering; Computer Science Applications; Modeling and Simulation http://xplore.staging.ieee.org/ielx7/4234/10247108/10171413.pdf?arnumber=10171413		Other	Y	Y		Y
29	doi:10.1109/WCNC51071.2022.9771709 Title Authors DOI Type Published in	Stochastic Resource Allocation for Outage Minimization in Random Access with Correlated Activation Ce Zheng; Malcolm Egan; Laurent Clavier; Anders E. Kalor; Petar Popovski doi:10.1109/WCNC51071.2022.9771709 Proceedings article 2022 IEEE Wireless Communications and Networking Conference (WCNC)		Other	Y	Y		Y

	Published by Link	IEEE http://xplore.staging.ieee.org/ielx7/9771381/9771540/09771709.pdf?arnumber=9771709						
30	doi:10.1109/SPAWC53906.2023.10304541 Title Authors DOI Type Published in Published by Link	A Weighted Autoencoder-Based Approach to Downlink NOMA Constellation Design Vukan Ninkovic; Dejan Vukobratovic; Adriano Pastore; Carles Antón-Haro doi:10.1109/SPAWC53906.2023.10304541 1 Proceedings article 2023 IEEE 24th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC) IEEE http://xplore.staging.ieee.org/ielx7/10304363/10304364/10304541.pdf?arnumber=10304541		Other	Y	Y		Y
31	doi:10.1109/LAWP.2023.3323833 Title Authors DOI Type Published in Published by ISSNs Subject Link	Deterministic Modeling of MIMO Communication within Typical Hospital Patient Rooms M. Ghaddar; J. Pascual-García; J.M. Molina-García-Pardo; I. Ben Mabrouk; H. Sun; H.V. Poor doi:10.1109/LAWP.2023.3323833 Journal article IEEE Antennas and Wireless Propagation Letters Institute of Electrical and Electronics Engineers (IEEE) 1536-1225; 1548-5757 Electrical and Electronic Engineering http://xplore.staging.ieee.org/ielx7/7727/4357943/10278444.pdf?arnumber=10278444 4		Other	Y	Y		Y