



17-22 August 2025, Sydney, Australia

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**Convened Session Title: COST CA20120 INTERACT: Measurement & Modelling of
Radio Waves Propagation for Indoor Communications**

Target Commissions: Commission F - Wave Propagation and Remote Sensing

Convened Session Description:

Many of the modern radio communication networks is expected to operate in various indoor environments such as office buildings, conference venues, multi-story residential buildings as well as hospitals, factories, ships, automobiles, etc. Considering new use-cases, frequency bands and antenna technology in the future 5G/6G networks, there is an unceasing need for further radio propagation studies at these indoor environments along with the development of their corresponding channel models. Deep understanding and characterization of the indoor radio channels will allow obtaining statistical models that accurately reflect the communication link. This, in turn, enables physical layer designers to achieve optimal transceivers that can compensates for potential channel impairments and obtain higher reliability in the system operation.

This session is aimed to provide opportunities for researchers from industry and academia to present novel simulation and physical measurement techniques along with methodologies to characterize radio waves propagation and discuss approaches to obtain channel models for future radio networks applications in indoor environment.

Convened Session Organizers:

Slawomir Ambroziak (Gdańsk University of Technology, Poland)

Diego Dupleich (Technische Universität Ilmenau, Germany)

Kamran Sayrafian (National Institute of Standards and Technology, USA)

Important Dates:

Paper submission deadline: February 20, 2025

Notification of acceptance: April 15, 2025

Submission link:

<https://ap-rasc.com/papersubmission.php>

Please choose the following options during submission:

- Select Scientific Session:
COST CA20120 INTERACT: Measurement & Modelling of Radio Waves Propagation for Indoor Communications
- Is your paper invited?
YES
- If yes, please name the Convener who has invited you?
Slawomir Ambroziak or Diego Dupleich or Kamran Sayrafian
- Presentation Category:
Oral Presentation Onsite