



WaveComBE

mmWave Communications in the Built Environments

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Year 1 Project Workshop

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Executive Summary

Millimetre-wave frequencies have been extensively studied during the recent years as the potential candidate bands for allocating mobile access services in 5G and beyond. A future with dense deployments of mobile network nodes working at such frequency bands is foreseen, mainly for environments where demand of extreme mobile broadband connectivity is concentrated, like in the built environments, either indoors or urban outdoors.

IRACON (www.iracon.org) is the COST Action on Radio Communications aimed at the design and analysis for the 5th-generation (5G) and beyond-5G radio networks. IRACON participants develop accurate radio channel models for scenarios including, but not limited to, heterogeneous cells, body area networks and vehicular communications, using carrier frequencies above UHF up to Terahertz.

WaveComBE (www.wavecombe.eu) is an Industrial and Training Network of the Marie Skłodowska-Curie Action, dealing with the ultra-dense deployment of millimetre-wave (mmW)

¹ CO = Confidential, only members of the consortium (including the Commission Services)

PU = Public

small-cells (SCs) in conjunction with massive multiple-input multiple output (MIMO) in 5G and beyond 5G (B5G) wireless networks.

WaveComBE and IRACON Committees are offering this joint training workshop on the current advances on millimetre-wave radio channel modelling that both communities have produced recently. The objective of the workshop is to provide a comprehensive insight of the propagation aspects of mm-Wave frequencies, the various techniques for channel modelling in these bands, and the system level aspects of implementation and practical aspects, mainly on antennas and MIMO systems when applied above 30GHz.

Organization details

The Joint IRACON-WaveComBE Training Workshop will be held in Dublin, the 15th of January, at the Dublin City University. The title of this workshop is “*Radio Channel Modelling for 5G Millimetre Wave Communications in Built Environments*” and it is co-located with the 9th Management Committee Meeting of COST IRACON. The organizers of this training workshop are Narcis Cardona, from UPV and WaveComBE coordinator, Sana Salous from UDUR, and an external person, Katsuyuki Haneda, from Aalto University in Finland.

The registration to this workshop is available through IRACON webpage and it is free of charge for WaveComBE and IRACON members.

Agenda

This event is a one-day workshop, starting at 10:30 am and finishing at 17:30 pm. It is divided in three sessions (morning, afternoon and closing), and each session is made up of three speeches (20 minutes plus questions each speech). Therefore, the schedule of the workshop is:

Joint IRACON-WaveComBE Training Workshop	
10:30-11:00	Welcome coffee and opening
11:00-12:30	Morning session
12:30-13:30	Lunch break
13:30-15:00	Afternoon session
15:00-15:30	Coffee break
15:30-17:30	Closing session

Speakers

The speakers confirmed to attend this event are both from WaveComBE project and external people. The ones that are partners of the WaveComBE project are:

- Andrés Alayon, Univ of Twente, NL
- Pieter Demuytere, Televic, BE
- Jie Zhang, RanPlan, UK
- Athanasios Vasileiadis, U. of Sheffield, UK
- Sana Salous, U. of Durham, UK
- Narcis Cardona, UPV, ES

The other ones, who do not belong to the Project, are:

- Vittorio Degli-Sposti, UniBO, IT
- José María Molina, UPCT, ES

- Katsuyuki Haneda, Aalto Univ., FI
- Diego Dupleich, TU Ilmenau, DE
- Johannes Eckhardt, TU Braunschweig, DE
- Jonas Medbo, Satyam Dwivedi, Ericsson, SE