MONDAY 13:50 – 17:50

Standard, Prototype, and Measurement for Integrated Sensing and Communications in the COST Action INTERACT

WM03
EuMC/
EuRAD

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Room: Juliana 3

Integrated sensing and communications (ISAC) is considered as one of the key features for 6G, where radar sensing functionalities will be integrated with the radio communication infrastructure to provide more reliable high-speed communications and also to enable emerging new services like autonomous driving, smart human support, and industry 5.0. In ISAC systems, the accurate information of surrounding operation environment is as important as the high-speed data transmissions. Despite promising, there are yet challenges in ISAC system design, use case scenario characterization and modeling, resource allocation to balance and optimize the dual function performances in the use cases.

This workshop aims to provide the current state-of-the-art of the ISAC development in the framework of COST action INTERACT. This workshop focuses on the ISAC standard, prototype and measurement, aiming at providing both industry and academia a comprehensive end-to-end overview covering systems, resources, scenarios, and performance tradeoffs.

PROGRAMME

Digital twins, ISAC channel measurement, digital twin, and inference from various link scenarios

Narcis Cardona[1]
[1]University politecnica de valencia, Spain

Dual-band ISAC prototype and demo at upper mid-band

Bixing Yan[1]
[1]University of Twente, Netherlands

ISAC standardization in 3GPP

Christopher Mollen[1]
[1]Ericsson, Sweden

Distributed MIMO prototype and measurements for ISAC use cases

Minseok Kim[1]
[1]Niigata University, Japan

ISAC prototype, measurement and resource allocation

Carsten Smeenk[1]
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