

EXPERIMENTAL RESEARCH AND PROTOTYPING TOWARDS 5G AND BEYOND

In recent years, it clearly emerged an increasing importance of experimental validation of innovative wireless solutions and applications, due to the increasing complexity of the wireless ecosystem in the emerging 5G scenarios and beyond. Several research initiatives worldwide are proposing the design of experimental platforms and control architectures for validating innovative wireless devices, communication techniques, networks, and services. The objective of this technical session is bringing together developers, practitioners, technical experts and researchers to share experiences and advance the state of the art in all aspects of 5G systems prototyping, evaluation and testing. The session also aims to solicit contributions and promote discussion on the novel methodological studies and experimental paradigms for future 5G testbeds and co-development of experimental platforms.

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Short Curriculum Vitae

Ilenia Tinnirello is Associate Professor of Networking at the University of Palermo. She has also been a Visiting Researcher at the Seoul National University, Seoul, South Korea, in 2004, and Nanyang Technological University of Singapore, Singapore, in 2006. Her research activities have been focused on wireless networks, and in particular on the design and prototyping of protocols and architectures for emerging reconfigurable wireless networks. She is also working on the definition of novel services, such as smart grid, smart metering, and indoor localization, enabled by the pervasive availability of ICT technologies. She has been involved in several European research projects, among which the FP7 FLAVIA Project, with the role of Technical Coordinator, the FP7 CREW and H2020 WiSHFUL Projects with the role of research unit coordinator, and the H2020 Flex5Gware and SYMBIOTE projects.

Luiz Da Silva

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Short Curriculum Vitae

Luiz A. DaSilva holds the personal chair of Telecommunications at Trinity College, where he is a co-principal investigator of CONNECT, a telecommunications centre funded by the Science Foundation Ireland. Prior to joining TCD, Prof DaSilva was a tenured professor in the Bradley Department of Electrical and Computer Engineering at Virginia Tech. His research focuses on distributed and adaptive resource management in wireless networks, and in particular radio resource sharing and the application of game theory to wireless networks. Prof DaSilva is a principal investigator on research projects funded by the National Science Foundation, the Science Foundation Ireland, and the European Commission under Horizon 2020. Prof DaSilva is an IEEE Communications Society Distinguished Lecturer. He is also a Fellow of the IEEE, for contributions to cognitive networks and to resource management in wireless networks.