



TALK TITLE:

Adding social capability to Digital Twins in 5G IoT ecosystems

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ABSTRACT:

The Digital Twin (DT) concept has gained momentum as a concrete means to implement the vision of bridging the physical world with the digital one. All physical objects can be coupled with a digital counterpart which can augment their capabilities and can act on their behalf when interacting with third parties. To increase the ability to interact between objects, even belonging to different platforms managed by different Tenants, one can think of providing these DTs with “social like” capabilities by drawing on concepts derived from the Social IoT paradigm. The purpose of this talk is to illustrate how the use of what we can call “social digital twins”, coupled with modern network virtualization techniques used in 5G networks, can make communications, even group communications, more efficient and contribute to overcoming some interoperability constraints.

BIOGRAPHY

Antonio Iera graduated in Computer Engineering at the University of Calabria, Italy, and received a Master Diploma in Information Technology from CEFRIEL/Polytechnic of Milan, Italy, and a Ph.D. degree from the University of Calabria. From 1994 to 1995 he has been with Siemens AG in Munich, Germany, and from 1997 to 2019 with the University of Reggio Calabria. He is currently a professor of Telecommunications at the University of Calabria, Italy. His latest research interests include Internet of Things, Social IoT, Future Internet, Multicasting in 4G and 5G Networks. He has published more than 300 papers in high-quality journals and conferences and has given several tutorials and invited speeches during international events on the topics of IoT, Social-IoT, and 5G networks. He serves as Editor-in-Chief for the Computer Network Journal, Elsevier.

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