TALK TITLE:

Towards the network of the future… with a little help from my friends

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ABSTRACT:

According to several market analyses MQTT is the most utilized messaging protocol in Internet of Things (IoT) applications. MQTT is a protocol which addresses a networking issue at the application layer. This is just one of many evidences that the network is failing in delivering a key service which should be under its responsibility, i.e., appropriate data delivery. Other relevant examples include packet filtering against denial of service attacks as well as service discovery and selection.

In this talk we will discuss the role that the social network of everything can play in such a context. More specifically, we will discuss how new network primitives can be introduced and how they can be exploited. Furthermore, we will illustrate how to implement them taking advantage of Software Defined Networking (SDN). Finally, we will present a new network architecture that exploits the social Internet of everything to address novel requirements for the network of the future.

BIOGRAPHY

Giacomo Morabito received the laurea degree in Electronic Engineering and the PhD in Electrical, Computer and Telecommunications Engineering from the Istituto di Informatica e Telecomunicazioni, University of Catania, Catania (Italy), in 1996 and 2000, respectively. From November 1999 to April 2001, he was with the Broadband and Wireless Networking Laboratory of the Georgia Institute of Technology as a Research Engineer. Since April 2001 he is with the Dipartimento di Ingegneria Elettrica Elettronica e Informatica of the University of Catania where he is currently full professor of Telecommunications.

Giacomo Morabito has chaired several conferences and workshops including IFIP Networking 2022 and ACM Nanocom 2016. He has chaired the first edition of the ACM ICN workshop in 2011 and is one of the founders of the ACM ICN Conference for which he has been Steering Committee member from 2014 to 2016.

Finally, he has lead several research projects including the H2020 RIA project COG-LO.

His research interests include the (Social) Internet of Things, molecular communications, and wireless communications.

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