User-driven in-network computing at the (IoT) edge

Abstract

Edge computing has become a bendable buzzword -- with manifold interpretations -- for a current important trend in moving computation closer to the end users, especially the mobile human ones. At the same time, the provisioning model for edge services largely follows traditional rather centralized deployments as mere extensions of the cloud to "the edge". This maintains vertical service/vendor silos, limiting flexibility and data re-use. We take a different perspective: that of a mobile user who seeks to run apps to accomplish certain tasks when interacting with the surroundings. Our focus is on IoT applications that require dedicated devices nearby to fulfill their functions rather than abstract virtualization platforms. We explore different mechanisms to provide mobile users with dynamic access to edge nodes.

Speaker

Prof Jörg Ott
Professor, Department of Communications and Networking at Aalto University

Jörg Ott holds the Chair for Connected Mobility at Technische Universität München in the Faculty of Informatics since August 2015. He is also Adjunct Professor at Aalto University, where he was Professor for Networking Technology in the Department of Communications and Networking (Comnet) from 2005 through 2015. His current research areas include communication in challenged networks, particularly delay-tolerant/mobile opportunistic networking; adaptive real-time communication, information-centric networking, and network measurements. He is happily attending the 106th IETF meeting in Singapore this week.

Details

Friday, November 22, 2019
3:30 PM - 4:30 PM

Admin U-Lounge, Level 6
SMU Administration Building, 81 Victoria Street, Singapore 188065

We look forward to seeing you at this research seminar.

Register