From Sensor Networks to the Cloud: An Introduction to Ubiquitous Multi-Scale Digital Eco-Systems

Selected Topics in in Distributed Systems - 623.714

Recent advances in computer, communication and sensor/ actuator technologies hint at an emerging paradigm of computing, popularly referred to as "Digital Ecosystems". A Digital Ecosystem is a „distributed, open socio-technical system composed of actors and services, with properties of self-organization, scalability and sustainability, inspired by natural ecosystems" (Boley et al.). In this course, we will focus our interest on emerging ubiquitous and multi-scale digital ecosystems where users and services alike have (ubiquitous) access to a huge mass of information, produced by the local environment (sensor networks, ad-hoc networks, local servers) or remotely (Web services, distant servers, VPN-accessible private clouds, public clouds).

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We will especially address 2 questions:

- How to efficiently exchange rich and heterogeneous information (images, videos, texts, RSS feeds, sensor data…) in ubiquitous multi-scale environments?
- What security and privacy issues are raised by mobile and cloud technologies and their interaction?

Schedule:

Friday, 11.10.2013	10:00	12:00	E.2.42
Friday, 11.10.2013	14:00	18:00	E.2.42
Saturday, 12.10.2013	10:00	12:00	E.2.42
Saturday, 12.10.2013	14:00	16:00	E.2.42
Wednesday, 16.10.2013	08:00	10:00	E.2.42
Thursday, 17.10.2013	10:00	12:00	E.0.05
Thursday, 17.10.2013	14:00	16:00	E.2.37
Friday, 18.10.2013	08:00	12:00	E.2.42

Tuesday - 15.10.2013 - Public colloquia E.2.42
Title: Adaptation of video contents and perception quality

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