

Cyber-Human Partnerships – Towards a resilient ecosystem in Smart Cities

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Abstract: In this talk I will explore one of the most relevant challenges for a decade to come: How to integrate the Internet of Things with software, people, and processes, considering modern Cloud Computing and the Internet of Things (IoT) with Big Data. I will present a fresh look at this problem, and examine how to integrate people, software services, and things with their data, into one novel resilient ecosystem, which can be modeled, programmed, and deployed on a large scale in an elastic way. This novel paradigm has major consequences on how we view, build, design, and deploy ultra-large scale distributed systems and establishes a novel foundation for an “architecture of value” driven Smart City.

Bio: Schahram Dustdar is Full Professor of Computer Science and head of The Distributed Systems Group at the TU Wien, Austria. From 2004-2010 he was also Honorary Professor of Information Systems at the Department of Computing Science at the University of Groningen (RuG), The Netherlands. From Dec 2016 until Jan 2017 he was a Visiting Professor at the University of Sevilla, Spain and from January until June 2017 he was a Visiting Professor at UC Berkeley, USA. He is an Associate Editor of IEEE Transactions on Cloud Computing, IEEE Transactions on Services Computing (TSC), ACM Transactions on the Web (TWeb), and ACM Transactions on Internet Technology (TOIT) and on the editorial board of IEEE Internet Computing and IEEE Computer. He is the Editor-in-Chief Computing (Springer). Dustdar is recipient of the ACM Distinguished Scientist award (2009), the IBM Faculty Award (2012), an elected member of the Academia Europaea: The Academy of Europe, where he is chairman of the Informatics Section, and an IEEE Fellow (2016).