

## informatik-Kolloquium

The Department of Computer Science of Johannes Kepler University Linz<sup>1</sup> together with the Austrian Society of Computer Science (ÖGI) invites to the following talk:

### **Dr. Mukesh Mohania**

IBM Distinguished Engineer in IBM Research – Australia

## **Blockchain-based Data Management, Analytics and Applications**

**March 29th, 2018, 10:15-1:45**

JKU, Computer Science Building (Science Park 3) room S3 134

**Abstract:** Blockchain technology has gained massive attention in the recent years with significant expectations that it could transform every industry for its promise of providing a single “source of truth” for participants in a business network. Nevertheless, according to Gartner's 2016 hype cycle for emerging technologies, blockchain is entering its peak of inflated expectations and in fact, its years to mainstream to adoption is still 5 to 10 years ahead before the technology reaches a plateau of productivity. Since most of the blockchain efforts nowadays are still in a nascent state, we believe the time is right for database researchers and practitioners to get more deeply involved. In this talk, we put forward four components that researchers interesting in blockchain data management and analytics could increase focus on: (1) leverage query and transaction processing capabilities of mature data stores, (2) integrate on and off-chain data, (3) enable analytics services on blockchain as well as off-chain data, and (4) protect information from leakage. Finally, we will discuss number of blockchain applications in banking, insurance, and supply chain areas

**Biography:** Mukesh Mohania is an IBM Distinguished Engineer in IBM Research - Australia, and currently working in the areas of Blockchain, and Cognitive Data and Analytics. He is also an Adjunct Professor at University of South Australia, Australian National University, and University of Melbourne. He has worked extensively in the areas of Information Management and Autonomic Computing. His work in these areas has led to the development of new products and also influenced several existing IBM products. He has received several awards within IBM, such as "Best of IBM", "Excellence in People Management", “Out-standing Innovation Award”, "Technical Accomplishment Award", “Leadership By Doing”, and many more. He has published more than 120 research papers in International Conferences and Journals and also filed more than 80 patents in these or related areas, and more than 50 have already been granted. He is an IBM Master Inventor and a member of IBM Academy of Technology. He has held several visible positions in professional activities, like VLDB 2016 Conference Organizing Chair, ACM India Vice-President. He is an ACM Distinguished Scientist and currently chairing ACM Distinguished Service Award Committee in 2017-2018.

Host: *o.Univ.-Prof. Dr. Michael Schrefl*

*Department for Business Informatics - Data & Knowledge Engineering)*

The department consists of the following institutes::

Application Oriented Knowledge Processing (FAW), Bio Informatics, Computational Perception, Computer Architecture., Computer Graphics, Formal Models and Verification, Networks and Security, Integrated Circuits, Pervasive Computing, Software Systems Engineering, System Software, Telecooperation, Signal Processing



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