

EINLADUNG

Informatik-Sonderkolloquium

VORTRAGENDER: AO. PROF. DR. BOUALEM BENATALLAH, UNIVERSITY OF NEW SOUTH WALES, SCHOOL OF COMPUTER SCIENCE AND ENGINEERING, SYDNEY, AUSTRALIA

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SERVICE-ORIENTED COMPUTING: OPPORTUNITIES AND CHALLENGES

The emerging next-generation Web technologies, centered on the concept of Web services, promise to enable interactions and efficiencies that have not been experienced before. The foundation of this technology lies in the modularization and virtualization of system functions as services that: (i) can be described, advertised and discovered using (XML-based) standard languages, and (ii) interact through standard Internet protocols.

This talk outlines some of the significant achievements and opportunities in the field of service oriented computing. We will then examine interoperability and adaptation challenges in service-oriented architectures. While much progress has been made toward providing basic interoperability at the messaging layer, there is still a lot to be done. Interoperability is more pronounced and challenging in service-oriented architectures than usual. This is partly because services are typically developed by different teams/organizations, and the difficulties created by systems' complexity, unpredictability, autonomy and semantic heterogeneity.

We highlight interoperability aspects at higher levels of abstractions including content, business protocol layers. We discuss the importance of conceptual modeling, design intelligence, models alignment and analysis to facilitate large-scale interoperation among Web services.