Laboratoire d'Analyse et d'Architecture des Systèmes du CNRS

FORESIGHT & RESEARCH PRIORITIES FOR SERVICE ORIENTED COMPUTING

par

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résumé de l'exposé

Service-Oriented Computing is a new computing paradigm that utilizes services as the basic constructs to support the development of rapid, low-cost and easy composition of distributed applications even in heterogeneous environments. The promise of Service-Oriented Computing is a world of cooperating services where application components are assembled with little effort into a network of services that can be loosely coupled to create flexible dynamic business processes and agile applications that may span organizations and computing platforms. The subject of Service Oriented Computing is vast and enormously complex, spanning many concepts and technologies that find their origins in diverse disciplines that are woven together in an intricate manner. In addition, there is a need to merge technology with an understanding of business processes and organizational structures, a combination of recognizing an enterprise's pain points and the potential solutions that can be applied to correct them. The material in research spans an immense and diverse spectrum of literature, in origin and in character. As a result research activities are very fragmented. This necessitates that a broader vision and perspective be established—one that permeates and transforms the fundamental requirements of complex applications that require the use of the Service-Oriented Computing paradigm.

This talk provides a Service Oriented Computing Roadmap and places on-going research activities and projects in the broader context of this roadmap. This research roadmap launches four pivotal, inherently related, research themes to Service Oriented Computing: service foundations, service composition, service management and monitoring and service-oriented engineering.

l'orateur

Michael P. Papazoglou holds the chair of Computer Science and is director of the European Research Institute in Services Science (ERISS) at the Univ. of Tilburg in the Netherlands. He is also an honorary professor at the University of Trento in Italy, and professorial fellow at the Universities Lyon 1 (France), Univ. of New South Wales (Australia) and Universidad Rey Juan Carlos, Madrid. Prior to this he was full Professor and head of School of Information Systems at the Queensland Univ. of Technology (QUT) in Brisbane Australia (1991-1996). He also held senior academic positions at the Australian National University, University of Koblenz, Germany, Fern Universitaet Hagen, Germany, the National German Research Centre for Computer Science (GMD). Papazoglou serves on several international committees and on the editorial board of nine international scientific journals and is co-editor in charge of the MIT book series on Information Systems. He has chaired numerous well-known international scientific conferences in Computer Science. These include the International Conf. on Data Engineering (ICDE), International Conf. on Distributed Computing Systems (ICDCS), International Conf. on Digital Libraries (ICDL), and the International Conf. on Cooperative Information Systems (CoopIS), International Conf. on Entity/Relationship Modeling and others. He is the founder of the International Conf. on Cooperative Information Systems (CoopIS) and more recently of the International Conf. on Service Oriented Computing (ICSOC).

Papazoglou has authored/edited fifteen books and over one hundred and fifty scientific journal articles and refereed conference papers. His most two recent books are "e-Business: Organizational and Technical Foundations" published by J. Wiley May 2006, and "Web Services: Principles and Technologies" published by Prentice-Hall, September 2007.

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