

# **ICWS 2006** **Tutorial 5**

## **Business Agility and Process Management**

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### **Abstract:**

The turbulent modern business environments require firms to be more flexible and agile. This requires ability to quickly integrate and automate intra and inter-organizational business processes. An agile IT architecture is key to achieving success in this environment. Service oriented architecture and Web services provide means for achieving the business agility. However, significant impediments to wide scale adoption and use of these technologies remain. We will focus on significant challenges in the areas of service identification and design, cataloging and searching for appropriate services, domain specific standardization of service interfaces, matching service functionality with requirements, and service selection based on non functional characteristics.

We describe an integrated framework based on standard modeling, design and code generation tools to support development of highly agile application systems. This framework is a result of multi year research effort aimed at developing methodologies and tools for defining business components and Web Services, develop schemes for describing components and services in business terms to allow efficient search of appropriate component/services and an environment for assembling application from reusable components and web services. Specific approaches used to address some of the challenges described above will be discussed.

### **About the Presenter:**

Hemant Jain is Wisconsin Distinguished & Tata Consultancy Services Professor of Management Information System. Prof. Jain received his Ph. D. in Information System from Lehigh University in 1981, a M. Tech. in Industrial Engineering from I.I.T. Kharagpur (India) and B.S. in Mechanical Engineering from University of Indore (India).

Prof. Jain's interests are in the area of Electronic Commerce, System Development using Reusable Components and Web Services, Distributed and Co-operative Computing Systems, Architecture Design, Database Management and Data Warehousing. He has published over fifty articles in leading journals like Information Systems Research, MIS Quarterly, IEEE transactions on Software Engineering, Journal of MIS, IEEE Transactions Systems Man and Cybernetics, Naval Research Quarterly, Decision Sciences, Decision Support Systems, Communications of ACM, and Information & Management. Additionally, he has published over 40 papers in referred conference proceedings.

Prof. Jain is an associate editor of Information Systems Research a flag ship journal of INFORMS. He also serves on the editorial Board of the Information Technology & Management, International Journal of Web Services Research, Information Management, and International Journal of Information Technology and Decision Making. He is on the board and member of Steering Committee of IEEE Technical Community for Services Computing and is a member of Service, Systems and Organizations Technical Committee of the IEEE SMC Society. He was the program committee co-chair of 2004 IEEE conference on Web services and is general chair of IEEE SCC 06. Prof. Jain served as consulted for a number of fortune 500 companies.