About the Contributors

Raja Ramanathan is an IT Enterprise Architect and SOA Subject Matter Expert with over 25 years of experience in software architecture and development, enterprise integration, and governance of mission critical systems. The past two decades, Raja has focused on developing strategic enterprise initiatives, providing solutions architecture, and implementing service-oriented and process-centric systems for Fortune 500 companies. He has provided effective technical leadership and evangelism for oil and gas, energy and utilities, software product development, and financial service industries. His current research interests include Service-driven and Cloud Computing. Raja has a M.E.E in Electrical Engineering from the University of Delaware, USA.

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Manar Ali has been working as a Lecturer in King Abdulaziz University (KAU), Jeddah, Saudi Arabia since 2004. Manar is currently a full time PhD student at the University of Leicester, UK, and is expected to graduate in 2013. Manar has a B.Sc degree from KAU in Computer Science and obtained her M.Sc in Advanced Computing from Imperial College, London.

Thomas Bauer is a Professor for Business Informatics at the University of Applied Sciences in Neu-Ulm, Germany. Thomas holds a PhD and Diploma in Computer Science. Until 2011, he was a senior researcher at the Daimler Research Centre in Ulm, where he worked on methods for vehicle engineering and business process management. Earlier, Thomas was employed in the Databases and Information Systems Group at the University of Ulm, where he worked on the efficient enactment of enterprise-wide workflows. His current research interests and teaching areas include Business Process Management, Service-oriented Architectures, Database Systems, and Business Intelligence.
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**Prashant Doshi** is an Associate Professor of Computer Science, Director of the THINC Lab and is a faculty member of the Institute for AI at the University of Georgia, USA. Prashant obtained his PhD from the University of Illinois at Chicago. His current research interests lie in multiagent systems, Web services and the semantic Web. His research has led to approaches for automated and scalable compositions of Web services. Prashant has published numerous papers in the Journal on WSR, IEEE Transactions on Services Computing, Journal of SOCA, ICWS and SCC. He teaches courses on enterprise integration and Web services.

**Jing Dong** is currently with Hewlett Packard. Previously, he was on the faculty of Computer Science at the University of Texas at Dallas. Jing received his BS in Computer Science from Peking University and PhD in Computer Science from the University of Waterloo. His research interests include cloud computing, software architecture, formal and automated methods for software engineering, software modeling and design, and visualization. He is a senior member of the IEEE and the ACM.

**Aurélien Faravelon** currently completes his PhD at Grenoble University under the direction of Prof. Christine Verdier and Philippe Saltel. His work focuses on designing and implementing secured heterogeneous and distributed applications by configuring non-functional properties of services.

**Alan Megargel** is a Senior Lecturer of Information Systems at the Singapore Management University, Singapore. Alan’s current areas of specialization include enterprise architecture in banking, service oriented architecture, business process management, and massive-scale in-memory data grid technology. Alan’s industry experience includes Chief Technology Officer at TIBCO Software Asia, Vice President and Head of SOA at OCBC Bank, and Senior Enterprise Architect at ANZ Bank. Alan holds an MSc in Software, Systems and Information Engineering from the University of Sheffield.

**Lloyd Rebello** is an Enterprise Architecture and IT Strategy Advisor to C-Level Executives. Most recently, Lloyd, with the leadership teams of a major public sector organization and a Fortune 100 bank, developed two separate strategies for business enabling technology platforms and IT transformation. Lloyd has also served as the head of product development and chief product architect for two separate consulting companies (CRM & Enterprise Licensing Management) where he helped both transition from being consulting based to becoming product centric. In that most recent product development role, the CRM product made Gartner’s Cool Technology list for 2009.
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Manfred Reichert is a Professor of Computer Science at the University of Ulm, Germany. Manfred holds a PhD in Computer Science and a Diploma in Mathematics. His major research interests include next generation process management technology, service-oriented computing, and advanced IT applications. Manfred pioneered the work on the ADEPT process management technology and co-founded AristaFlow GmbH which developed the AristaFlow BPM Suite. Manfred has contributed more than 220 papers to several research projects in the BPM area. He was the PC Chair of the BPM’08, CoopIS’11, and EDOC’13 conferences, and General Chair of the BPM’09 Conference in Ulm.

Stephan Reiff-Marganiec has been a Senior Lecturer in the Department of Computer Science at the University of Leicester since 2003. Previously, he worked in the computer industry in Germany and Luxembourg for several years. Stephan was co-chair of several international conferences and the principal investigator of several EU funded projects. Stephan has published over 50 papers in international conferences and journals. Stephan was appointed guest Professor at the China University of Petroleum in 2009 and was elected Member Fellow of the BCS (FBCS) in May 2009. He was visiting Professor at Lamsade at the University of Dauphine, Paris in 2010.

Venky Shankararaman is an Associate Professor of Information Systems at the Singapore Management University, Singapore. Venky has over 20 years of experience in the IT industry as a researcher, faculty member, and industry consultant. He also worked at UK and Singapore universities where he taught and researched in intelligent and distributed systems. His current areas of specialization include business process management, enterprise architecture, and enterprise integration. Venky has designed and delivered professional courses in BPM, enterprise architecture, technical architecture, and enterprise integration in Europe, Asia and USA. He has published over 50 papers in academic journals and conferences.

Leo Shuster is the Director of IT Architecture at Nationwide Insurance. With over 20 years of IT experience, Leo has directed Enterprise Architecture and SOA strategy and execution for Nationwide Insurance, National City Corporation, Ohio Savings Bank and Progressive Insurance. Leo has presented on Enterprise Architecture, SOA, BPM, and related topics in industry events, conferences and blogs. He is a co-author of Thomas Erl’s book on SOA Governance: Governing Shared Services On-Premise and in the Cloud. Leo holds an MS in Computer Science and Engineering from Case Western Reserve University and an MBA from Cleveland State University.

Longji Tang has served as a Tech Lead, Architect, and Lead Project Manager in FedEx IT since 2000. Longji obtained his PhD in Software Engineering in 2011 at the University of Texas at Dallas. He graduated from Penn State University in 1995 with a Master of Engineering degree in Computer Science & Engineering and a Master of Art degree in Applied Mathematics. Longji has published 30 research papers in computational mathematics and software engineering. His research interests include software architecture, modeling, software design and management, service-oriented architecture, service computing, cloud computing, mobile computing, and applications.
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Wei-Tek Tsai is a Professor of Computer Science and Engineering at Arizona State University. Wei-Tek received his M.S. and Ph.D. in Computer Science from University of California at Berkeley, USA, and S.B. from Massachusetts Institute of Technology, USA. He holds visiting professorships in various universities in China and Europe. Wei-Tek has worked on various aspects of software engineering including requirements, design, testing, simulation, maintenance, and metrics. His recent work focuses on SaaS, service-oriented architecture and computing, education on service-oriented computing, and service-oriented robotics. He has written more than 300 papers and four books including books on service-oriented computing.

Nithya Vembu graduated with her M.S. degree in Artificial Intelligence in 2011 from the Institute for AI at the University of Georgia. Prior to this, she was a programmer analyst at Cognizant technology services. Her Master’s thesis research was on a principled formulation of the data mediation problem between disparate Web services participating in a composition. Nithya implemented several data mediation approaches within the framework of a translator Web service. This research forms a part of this book chapter.

Keith Worfolk is an innovative IT executive and strategist with 25 years of international experience in leading enterprise architecture, software development, large-scale systems integration, and IT operations in Fortune 500 and Big Five Consulting environments. Keith is a demonstrated problem solver and visionary in leading organizations through change to achieve strategic technology and business advantage via enterprise solutions. He has been involved in building and communicating the IT vision across organizations, ensuring executive alignment. Keith is a prolific thought leader in various publications and events. He has a Masters Degree in Computer Information Systems and an MBA from Duke University.