Lecture Notes in Computer Science 5364

Commenced Publication in 1973
Founding and Former Series Editors:
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Service-Oriented Computing – ICSOC 2008

6th International Conference
Sydney, Australia, December 1-5, 2008
Proceedings

Springer

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Library of Congress Control Number: 2008939869

CR Subject Classification (1998): C.2, D.2, D.4, H.4, H.3, K.4.4

LNCS Sublibrary: SL 2 – Programming and Software Engineering

ISSN 0302-9743
ISBN-10 3-540-89647-3 Springer Berlin Heidelberg New York
ISBN-13 978-3-540-89647-0 Springer Berlin Heidelberg New York

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper SPIN: 12577101 06/3180 5 4 3 2 1 0

Preface

This volume contains the conference proceedings of ICSOC 2008, the 6th International Conference on Service-Oriented Computing, which took place in Sydney, Australia, December 1–5, 2008; it comprises research, industry and demo papers. ICSOC 2008 built upon the tradition of five previous successful editions that were held in Vienna, Austria (2007), Chicago, USA (2006), Amsterdam, The Netherlands (2005), New York City, USA (2004) and Trento, Italy (2003). ICSOC is recognized as the premier conference for service-oriented computing research; it covers the entire spectrum from theoretical and foundational results to empirical evaluations to practical and industrial experiences. In addition, ICSOC 2008 has successfully demonstrated the cross-disciplinary nature of service engineering by building bridges with the business community, and by attracting contributions on service-oriented systems of systems integration.

Service-oriented computing (SOC) has emerged as an approach to tackling the complexity we face in developing, operating and maintaining Internet-scale applications of high quality. SOC shifts the focus from monolithic systems to flexible integration of services using novel approaches to dynamic discovery, orchestration, assembly and management, policy and governance, quality of service, and information assurance. SOC is also a key enabler of the emerging trends towards grid and cloud computing, which play an integral role in enabling novel applications in E-Sciences, E-Government and ultra-large-scale software-intensive systems, to name just a few examples. This shift toward flexible service integration also requires a deep understanding and, often, rethinking of end-to-end systems engineering processes, including the corresponding business and economic drivers for definition of, or changes to, enterprise architectures.

The program we assembled is reflective of the breadth and depth of the research and applications of SOC, with contributions in the following areas:

- Business Service Modeling
- System of Systems Integration
- Service Engineering
- Service Assembly and Grid Services
- Service Management
- SOA Runtime
- Quality of Service
- Business and Economical Aspects of Services

In addition, we were honored to have four prominent players in the area of SOC give keynote addresses at ICSOC 2008:

- "Services for Science", by Ian Foster, Argonne National Laboratory and University of Chicago.
- "Web Scale Computing: The Power of Infrastructure as a Service", by Peter Vosshall, Vice-President and Distinguished Engineer at Amazon.com.

- "Services in the Long tail World: Challenges and Opportunities", by Neel Sundaresan, Senior Director and Head at Ebay Research Labs.
- "Managing and Internet Service Bus", by Donald F. Ferguson, Chief Architect, Enterprise IT Management Products at CA, Inc.

ICSOC 2008 received 151 contributions in the research track, of which we accepted 32 full and 20 short papers. The Industry Track selected 6 of the 22 submissions, and the Demonstration Committee proposed 6 Demonstration papers out of 11 submissions for inclusion in the proceedings. The selection process was difficult because of the large number of excellent submissions we had to choose from.

We thank the Area Coordinators for their help throughout the review process, as well as the members of the Program Committee and their sub-referees for their efforts in selecting the papers to be presented.

We also gratefully acknowledge the contributions of Martin Karusseit, Holger Willebrandt, and Zoi Choselidou in helping with the conference management system (OCS) and the notification process. We would also like to acknowledge Hakim Hacid for his untiring and thankless work of maintaining the ICSOC 2008 website. We would also like to acknowledge the active and generous support of our sponsors. To all of them, and all others who helped make ICSOC 2008 a success, we express our gratitude!

We hope you find the papers in this volume interesting and stimulating.

December 2008

Athman Bouguettaya
Tiziana Margaria
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