Modern Technologies in Web Services Research

Table of Contents

Preface.............................................................................................................. vi

Chapter I
Challenges and Opportunities for Web Services Research ....................... 1
Liang-Jie Zhang, IBM T.J. Watson Research Center, USA

Chapter II
Authentication Techniques for UDDI Registries........................................... 9
Elisa Bertino, Purdue University, USA
Barbara Carminati, University of Insubria at Varese, Italy
Elena Ferrari, University of Insubria at Varese, Italy

Chapter III
Web Services Enabled E-Market Access Control Model .............................. 31
Harry Wang, University of Arizona, USA
Hsing K. Cheng, University of Florida, USA
Leon Zhao, University of Arizona, USA
Chapter IV
Dynamically Adaptable Web Services Based on the Simple Object Access Protocol

Kevin Curran, University of Ulster, UK
Brendan Gallagher, University of Ulster, UK

Chapter V
Advanced Data Compression Techniques for SOAP Web Services

Christian Werner, University Lübeck, Germany
Carsten Buschmann, University Lübeck, Germany
Stefan Fischer, University Lübeck, Germany

Chapter VI
Mobile Agents Meet Web Services

Cristian Mateos, ISISTAN - UNICEN - CONICENT, Argentina
Alejandro Zunino, ISISTAN - UNICEN - CONICENT, Argentina
Marcelo Campo, ISISTAN - UNICEN - CONICENT, Argentina

Chapter VII
RAWS & UWAS: Reflective and Adaptable Web Services Running on the Universal Web Application Server

Javier Parra-Fuente, Oxford University, UK
Salvador Sánchez-Alonso, University of Alcalá, Spain
Marta Fernández-Alarcón, Pontifical University of Salamanca, Spain

Chapter VIII
Metadata-Based Information Management Framework for Grids

Wei Jie, Institute of High Performance Computing, Singapore
Tianyi Zang, Institute of High Performance Computing, Singapore
Terence Hung, Institute of High Performance Computing, Singapore
Stephen Turner, Nanyang Technological University, Singapore
Wentong Cai, Nanyang Technological University, Singapore

Chapter IX
Architectural Foundations of WSRF.NET

Glenn Wasson, University of Virginia, USA
Marty Humphrey, University of Virginia, USA

Chapter X
QoS-Aware Web Services Discovery with Federated Support for UDDI

Chen Zhou, Nanyang Technological University, Singapore
Liang-Tien Chia, Nanyang Technological University, Singapore
Bu-Sung Lee, Nanyang Technological University, Singapore
Chapter XI
Proactively Composing Web Services as Tasks by Semantic Web Agents ................................................................. 217
Vadim Ermolayev, Zaporozhye National University, Ukraine
Natalya Keberle, Zaporozhye National University, Ukraine
Oleksandr Kononenko, Nokia Research Center, Finland
Vagan Terziyan, University of Jyväskylä, Finland

Chapter XII
Web Services Identification: Methodology and CASE Tools ....................247
Hemant Jain, University of Wisconsin-Milwaukee, USA
Huimin Zhao, University of Wisconsin-Milwaukee, USA
Nageswara R. Chinta, Tata Consultancy Services, India

About the Authors .......................................................................................................................... 272
Index .............................................................................................................................................. 282