Table of Contents

SERVICES COMPOSITION AND TESTING

EDITORIAL PREFACE
iv Liang-Jie Zhang, Kingdee International Software Group Co. Ltd., China

RESEARCH ARTICLES

1 Usage Profiles: A Process for Discovering Usage Patterns over Web Services and its Application to Service Evolution
Bruno Vollino, Instituto de Informática, Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Rio Grande do Sul, Brazil
Karin Becker, Instituto de Informática, Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Rio Grande do Sul, Brazil

29 Improving Energy Efficiency in Web Services: An Agent-Based Approach for Service Selection and Dynamic Speed Scaling
Jiwei Huang, Department of Computer Science and Technology, Tsinghua University, Beijing, China & School of Computer Science, Georgia Institute of Technology, Atlanta, GA, USA
Chuang Lin, Department of Computer Science and Technology, Tsinghua University, Beijing, China

53 A Social-Aware Service Recommendation Approach for Mashup Creation
Jian Cao, Department of Computer Science and Engineering, Shanghai Jiaotong University, Shanghai, China
Wenxing Xu, Department of Computer Science and Engineering, Shanghai Jiaotong University, Shanghai, China
Liang Hu, Department of Computer Science and Engineering, Shanghai Jiaotong University, Shanghai, China
Jie Wang, Stanford University, Stanford, CA, USA
Minglu Li, Department of Computer Science and Engineering, Shanghai Jiaotong University, Shanghai, China

73 Test Pair Selection for Test Case Prioritization in Regression Testing for WS-BPEL Programs
Lijun Mei, IBM Research - China, Beijing, China
Yan Cai, City University of Hong Kong, Hong Kong, China
Changjiang Jia, City University of Hong Kong, Hong Kong, China
Bo Jiang, School of Computer Science and Engineering, Beihang University, Beijing, China
W.K. Chan, City University of Hong Kong, Hong Kong, China

Copyright
The International Journal of Web Services Research (IJWSR) (ISSN 1545-7362; eISSN 1546-5004), Copyright © 2013 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.