

## EDITORIAL PREFACE

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This issue of the International Journal of Web Services research (JWSR) collects four papers related to semantic service description and clustering.

The first paper is titled *SDWS - Semantic Description of Web Services*. Bravo, Rodríguez, and Pascual introduce a Web tool that automatically generates semantic descriptions for Web services. Experimental results are reported.

The second paper is titled *Web Service Clustering using a Hybrid Term-Similarity Measure with Ontology Learning*. Kumara, Paik, Chen, and Ryu address the problem of functionally clustering Web services. They adopt ontology learning to generate ontologies via the hidden semantic patterns existing within complex terms. Cluster centers are identified by combining service similarity with service names. Experimental results are also reported.

The third paper is titled *On the Updating of Domain OWL Models at Runtime in Factory Automation Systems*. Puttonen, Lobov,

and Lastra explore how to let software agents controlling production devices remain an up-to-date view of surrounding context to reason and plan actions consequently. Based on event notifications sent by Web services, they have established a technique to allow to specify update rules as well as to derive update rules from semantic web service descriptions.

The fourth paper is titled *A Novel Physics Inspired Approach for Web Service Composition*. Inspired by concepts in physics, Ahmed and Srivastava tackle the issue of selecting a service based on QoS attributes at runtime. The focus is on minimizing and balancing the waiting time for users. Experimental study is reported as well.

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*Liang-Jie Zhang is Senior Vice President, Chief Scientist, & Director of Research at Kingdee International Software Group Company Limited. Prior to joining Kingdee, he was a Research Staff Member at IBM Thomas J. Watson Research Center. Dr. Zhang has published more than 140 technical papers in journals, book chapters, and conference proceedings. He has 40 granted patents and more than 20 pending patent applications. Dr. Zhang received his Ph.D. on Pattern Recognition and Intelligent Control from Tsinghua University in 1996. He chaired the IEEE Computer Society's Technical Committee on Services Computing from 2003 to 2011. He also chaired the Services Computing Professional Interest Community at IBM Research from 2004 to 2006. Dr. Zhang has served as the Editor-in-Chief of the International Journal of Web Services Research since 2003 and is the founding Editor-in-Chief of IEEE Transactions on Services Computing. He was elected as an IEEE Fellow in 2011, and in the same year won the Technical Achievement Award "for pioneering contributions to Application Design Techniques in Services Computing" from IEEE Computer Society. Dr. Zhang also chaired the 2013 IEEE 2<sup>nd</sup> International Congress on Big Data (BigData 2013), and the 2009 IEEE International Conference on Cloud Computing (CLOUD 2009).*