

EDITORIAL PREFACE

Special Issue on Service Selection and Composition

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This special issue of the International Journal of Web Services research (IJWSR) collects four papers related to service selection and composition. They are all extended versions from papers published at IEEE International Conference on Web Services (ICWS 2014).

The first paper is titled *Time-dependent QoS-aware Best Service Combination Selection*. Guidara, Guermouche, Chaari, Jmaiel, and Tazi present a service selection approach based on QoS and temporal pruning techniques to reduce the number of candidate services. Experimental studies are reported.

The second paper is titled *Graph Similarity based Cloud Migration Service Composition Pattern Discovery*. Wan, Wang, Duan, Meng, and Xu present a technique of discovering cloud migration patterns from past service composition solutions, by formalizing the pattern discovery as a graph similarity matching

problem. Benchmark results and quantitative analysis are also reported.

The third paper is titled *Analyzing and Boosting the Data Availability in Decentralized Online Social Networks*. Puttonen, Fu, He, Liao, Huang, Li, and Chang present a probabilistic Data Availability (DA) model over storage capacity at real time. Quantitative analysis and simulation experiments are reported.

The fourth paper is titled *Composite Service Reselection Method in Correlation Context*. Zhang, Zhang, and Zhang present a correlation-aware service selection method. They extract QoS-Correlation services from the execution log through Apriori data mining method, associated with runtime reselection.

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Liang-Jie (LJ) Zhang is Senior Vice President, Chief Scientist, & Director of Research at Kingdee International Software Group Company Limited, and director of The Open Group. 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 2nd International Congress on Big Data (BigData 2013), and the 2009 IEEE International Conference on Cloud Computing (CLOUD 2009).