This special issue of the International Journal of Web Services Research (JWSR) 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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