This issue of the International Journal of Web Services research (IJWSR) collects four papers related to Web services composition.

The first paper is titled Characterizing Compatibility of Timed Choreography. Guermouche and Godart conduct choreography compatibility analysis for Web service composition, based on message sequences and quantitative properties such as timed properties. They present a model checking-based approach for timed asynchronous communicating services.

The second paper is titled Reputation Management for Composite Services in Service-Oriented Systems. Nepal, Malik, and Bouguettaya address the issue of reputation management in composite services. They present a reputation propagation technique that propagates reputation values from a composite service to its component services.

The third paper is titled Using Markov Decision Process Model with Logic Scoring of Preference Model to Optimize HTNWeb Services Composition. Xu, Chen, and Reiff-Marganiec tackle the automatic OWL-S Web service composition problem. They present a model that integrates a Markov decision process model and Hierarchical Task Network (HTN) planning to address Web services composition. A case study is also reported.

The fourth paper is titled An Adaptive Approach to Optimizing Tradeoff between Service Performance and Security in Service-based Systems. Yau, Yin and An tackle the tradeoffs between service performance and security according to user requirements and preferences. They propose a tradeoff algorithm equipped with quantitative performance and security metrics and a tradeoff objective function.
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