This issue of the *International Journal of Web Services Research* (IJWSR) collects four papers related to services modeling, discovery, and composition.

The first paper is titled *Decentralized Communication for Data Dependency Analysis among Process Execution Agents*. Urban, Liu, and Gao propose a decentralized approach of dynamically building distributed data dependency graphs for monitoring and managing the concurrent execution of service-oriented processes. Their method may help analyze how the failure of one process may potentially affect other concurrently executing processes.

The second paper is titled *Discovery of Web Service Flow based on Service Context*. Liu, Chi, Yu, Luo, and Xu propose an Element Fuzzy Cognitive Map (E-FCM)-based approach to extract from text descriptions and build association relations among services with similar functions, in order to recommend service composition based on user context.

The third paper is titled *Unified Modelling Functional and Non-Functional Aspects of Web Services Composition Using PTCCS*. Xiao, Huang, Cao, Hu, Liu, and Yuan aim to construct a unified model that is able to describe both functional and non-functional aspects of Web services composition. Their process algebra-based modelling approach is based on the Temporal Calculus of Communicating Systems.

The fourth paper is titled *Interactive and Iterative Service-Composition-based Approach to Flexible Information System Development*. Liang, Bharadwaj, and Lee present an information system development process, centered on semi-automatic, interactive and iterative services composition and the equipped metrics. Their approach leverages an AND/OR graph for composite services discovery while considering human judgment.

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