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

The first paper is titled *Similarity Measures for Substituting Web Services*. Bravo and Alvarado tackle the dynamic Web service substitution issue. Instead of considering semantic perspective, they set up a set of structure and functionality-related similarity measures. Then they apply a filtering process to calculate the measures.

The second paper is titled *Analyzing Communities of Web Services Using Incentives*. Khosravifar, Bentahar et al. tackle the issue of reputation assessment of communities of Web services (CWSs). Web services and virtual organizations are designed as autonomous software agents. User agents rate their satisfactions. Reputation assessment is achieved through a logging mechanism monitored by controller agents. They also provide a theoretical and practical analysis of the assessment and implementation.

The third paper is titled *Behavioral Attestation for Web Services based Business Processes*. Alam, Nauman et al. tackle the issue of measuring trustworthiness of dynamic composition of business services from their behavioral attestation. They first formally specify the behavior of individual services in a business process. Then with the assist of a hardware root of trust devised from the TCG, they set up a measurement of the behavior of individual services in a business process.

The forth paper is titled *Specifying and Composing Web Services with an Environment Ontology-Based Approach*. Wang, Jin et al. tackle the issue of Web services composition through reasoning about capabilities of Web services over environment entities. They build an environment ontology to formally represent domain-specific environment entities, whose behaviors are modeled using a hierarchical state machine. The capabilities of a Web service are recorded by state transitions traces over environment entities.

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