

Semantic description of Petri Nets Services

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Abstract:

Many definitions for context were provided as bases of context-aware system. Also dynamic adaptation is considered one of the most important goals in computing systems. These researches need for to find a formal model for web service which enables the dynamic composition of these services.

Some approaches used Petri nets algebra to model control flows as a tool of service composition.

[1] provides a context-aware service adaptation using colored Petri Nets, they provides a context definition based on the service so the system will adapt to context changes by changing the service or changing the service' form.

We want to extend this approach through providing ontology-based description of service that provides more efficient service discovery, invocation and composition.

References:

- 1- [Dynamic Context-Aware Service Adaptation in a Pervasive Computing System](#)