

Modeling and verification of Web service composition



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Web service composition is a core technology that can meet the fast dynamic, complex business needs. solve application system on demand problem. implement application systems integration and software reuse has become a new paradigm of distributed software development. However, the current for Wet) services and combinations of modeling, analysis and validation studies, etc. is not perfect, many problems still to be solved. Web service composition modeling and verification to start against the Web service composition modeling and validation studies. the main contents are as follows: (1) proposed Petri net model of semantic Web service composition. in order to verify Wet) composite service processes and semantic correctness Consistency foundation. Process (2) to improve the accuracy of Web service co...

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Verifying Web Services Composition based on LTL and colored Jul 1, 2015 A high-level Petri net based model for web services composition and verification, 2015 Article. Bibliometrics Data Bibliometrics. Citation Count:

Verification of Web Service Compositions: An Operationalization of In this paper, we discuss a model-based approach to verifying Web service compositions for Web service implementations. The approach supports verification.

Set Partition and Trace Based Verification of Web Service Composition ABSTRACT. In this paper we describe a tool for a model-based approach to verifying Web Service Compositions, Choreography, Model-Checking, BPEL4WS

Modeling and Verifying the Transactional and QoS-aware Services Keywords: Web service compositions, Service-oriented modeling, Formal methods. verification of Web services (WS verification) require formal models, e. g.

in **Compatibility Verification for Web Service - the CLIP Lab** However, current Web services composition systems make only use of functional The verification activity is based on the proof and model-checking. Published **A**

verification strategy for web services composition using enhanced Modeling and Verification of Web Services Composition based on CPN. Hui Kang. College of Computer Science and Technology, Jilin. University. Xiuli Yang.

Research on Web Service Composition and Verification - IEEE Xplore [2]: M. Roglinger Verification of web service compositions: An operationalization of correctness and a requirements framework for service- oriented modeling

Formal Modelling and Verification of Transactional Web Service Aug 16, 2016 As more reliable methods are needed to model and verify current complex Web services composition, this paper proposes a method to model **Web services compensation at runtime: Formal modeling and** We give an overview of a rigorous approach to Web Services composition Formal Verification of Web Services Composition Using Linear Logic and the pi- A Formal Model for Web Service Choreography Description Language (WS-CDL). **Modeling Cost-Aware Web Services Composition Using PTCCS** Abstract: As the capability of an individual Web service is limited, its necessary to create new functionalities with existing Web services. Web services **Modeling and verification of Web services composition based on** The idea of verifying Web Services Composition is modeling Web Services Composition by Colored Petri Net, and then using the modeling checking technique **A Petri Net-based Model for Web Service Composition** paper proposes a method to model and verify Web services composition based on model transformation. First, a modeling and verifying framework based on **CPN-based verification of web service composition model - IEEE LTSA-WS: A Tool for Model-Based Verification of Web Service** Abstract: In order to ensure the correctness of web service composition in WS-BPEL, this paper proposes modeling, analysis and verification based on Colored **Formal Verification of Web Services Composition Using Linear Logic** Dec 3, 2013 Web Service Composition includes two aspects: Web Service be bases of a modeling language, simulation tools, verification tools of Web **Model-based verification of web service compositions - IEEE Xplore** Thus, this paper presents a new Event-B semantics for formal modelling of Web service compositions that covers the scope, the fault and the compensation **Research on Formal Modeling and Verification of BPEL-based Web** Feb 27, 2015 Sections 8 discuss the implementation of proposed model for web service composition and verification. The performance of the proposed With the development of Web Service composition, more and more diversified and complex business demands are satisfied. But the logical validity cannot be g. **A Tool for Model-Based Verification of Web Service Compositions** A Petri Net-based Model for Web Service Composition. Rachid Hamadi. Boualem . cusses the analysis and verification of Web services. Section 5 gives a brief **Model-based verification of Web service compositions - IEEE Xplore** Unlike previous work, our approach allows to model and verify not only the composition of Web services, but also the internal activities for each invoked **Modeling and Verification of Web Services Composition based on** Web services compensation at runtime: Formal modeling and verification using Similar to the usual complex systems, web service compositions may exhibit **Formal verification for Web service composition: A model-checking** analysis and verification of behavior models of web service compositions implemented in the Business. Process Execution Language for Web Services. [1312.0677] **Formal Model of Web Service Composition: An Actor** verifying web service compositions for web service implementations. The approach supports verification against specification models and assigns semantics to **Modeling and verification of Web services composition based on** Formal Modeling and Verification for Web. Service Composition. Baojun Tian. College of Information Engineering, Inner Mongolia University of technology **Modeling and Verification of Web Services - IEEE Xplore** In this paper, we discuss a model-based approach to verifying Web service compositions for Web service implementations. The approach supports verification.