

EINLADUNG

Zeit: Donnerstag, 9. Januar 2003, 16.30 Uhr

Ort: AH I, Ahornstr.55

Referent: Herr Prof. Dr. Wil van der Aalst,
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Titel: Towards an Extendible, Interorganizational, Highly Expressive Workflow Language based on XML, Petri Nets, and Workflow Patterns

Abstract:

In the past decade workflow technology has become a standard component for supporting business processes. Unfortunately, there is no consensus on the precise functionality of workflow management systems. Differences in features supported by the various contemporary commercial workflow management systems point to different insights of suitability and different levels of expressive power. The challenge, which we undertook in a joint effort between Eindhoven University of Technology, Queensland University of Technology, and several Dutch consulting firms, is to systematically address workflow requirements, from basic to complex. This resulted in a comprehensive set of workflow patterns and a critical evaluation of 20 workflow management systems.

We have taken these patterns, four decades of Petri-net theory, and new technologies such as XML, to develop a new workflow language named XRL (eXchangeable Routing Language). XRL has an XML-based syntax and Petri-net based semantics. This allows for the application of state-of-the-art technologies (e.g., XSLT) and theoretical results (e.g., for verification). Since XRL supports many workflow patterns, it is highly expressive. Moreover, the language is extendible. The fact that XRL is instance-based makes it particularly suitable for supporting interorganizational workflows. The goal of XRL is not to develop a commercial language. Instead, we use it as a testbed for evaluating new concepts and techniques. Currently we are implementing a new version of XRL/Flower, the workflow management system based on XRL.

Es laden ein: Die Dozenten der Informatik