

Editorial for the SoSyM issue 2006/02

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This issue consists of two parts: The first part has three regular papers. The second part contains a special section on Service-Based Software Engineering edited by Manfred Broy, Heinrich Hussmann, Ingolf H. Krüger and Bernhard Schätz.

In the regular paper “Extending UML with Coordination Contracts” by *Kevin Lano* and *Jose Fiadeiro* a mechanism for separating software components from the glue (interactions) that tie the components together is introduced. The separation supports rapid evolution by allowing developers to adapt the glue (interactions) between the components without modifying the components themselves.

Nicolas Gorse, *Luigi Logrippo* and *Jacques Sincennes* in their paper “Formal Detection of Feature Interactions with Logic Programming and LOTOS” present a solution to the feature interaction problem that occurs in telecommunication, automobile, and other systems that consist of many interacting functional parts. The use of a two phased filter and test approach that first detects possible faulty interactions and then tests whether the faulty interactions can actually occur.

In the third regular paper “Separation of Non-Orthogonal Concerns in Software Architecture and Design” the authors *Holger Giese* and *Alexander Vilbig* describe a technique for separating non-orthogonal concerns during the development of large software architectures. Using the UML they introduce a constructive synthesis algorithm that includes a formal model of component synchronization behavior.

The SoSyM Special Section on “Service-Based Software Engineering” was organized and edited by Manfred Broy, Heinrich Hussmann, Ingolf H. Krüger and Bernhard Schätz. The papers presented in this section are substantially extended versions of papers presented at an ICSE-workshop in 2003. It contains five special section papers that are described in the special section editorial following the regular paper section.

We hope you enjoy reading the articles in this issue.

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