

Table of Contents

Session 1. Invited Papers

A Process-Theoretic Look at Automata	1
<i>J.C.M. Baeten, P.J.L. Cuijpers, B. Luttik, and P.J.A. van Tilburg</i>	
Verification, Performance Analysis and Controller Synthesis for Real-Time Systems	34
<i>Uli Fahrenberg, Kim G. Larsen, and Claus R. Thrane</i>	
rCOS: Theory and Tool for Component-Based Model Driven Development	62
<i>Zhiming Liu, Charles Morisset, and Volker Stolz</i>	

Session 2. Regular Papers

Termination in Higher-Order Concurrent Calculi	81
<i>Romain Demangeon, Daniel Hirschkoﬀ, and Davide Sangiorgi</i>	
Typing Asymmetric Client-Server Interaction	97
<i>Franco Barbanera, Sara Capecchi, and Ugo de'Liguoro</i>	
Equational Reasoning on Ad Hoc Networks	113
<i>Fatemeh Ghassemi, Wan Fokkink, and Ali Movaghar</i>	
Towards a Notion of Unsatisfiable Cores for LTL	129
<i>Viktor Schuppan</i>	
Rule Formats for Determinism and Idempotence	146
<i>Luca Aceto, Arnar Birgisson, Anna Ingolfsdottir, MohammadReza Mousavi, and Michel A. Reniers</i>	
The Complexity of Reachability in Randomized Sabotage Games	162
<i>Dominik Klein, Frank G. Radmacher, and Wolfgang Thomas</i>	
Applying Step Coverability Trees to Communicating Component-Based Systems	178
<i>Jetty Kleijn and Maciej Koutny</i>	
Program Logics for Sequential Higher-Order Control	194
<i>Martin Berger</i>	
Modular Schedulability Analysis of Concurrent Objects in Creol	212
<i>Frank de Boer, Tom Chothia, and Mohammad Mahdi Jaghoori</i>	

A Timed Calculus for Wireless Systems	228
<i>Massimo Merro and Eleonora Sibilio</i>	
Model Checking Linear Duration Invariants of Networks of Automata	244
<i>Miaomiao Zhang, Zhiming Liu, and Naijun Zhan</i>	
Automata Based Model Checking for Reo Connectors	260
<i>Marcello M. Bonsangue and Mohammad Izadi</i>	
On the Expressiveness of Refinement Settings	276
<i>Harald Fecher, David de Frutos-Escrig, Gerald Lüttgen, and Heiko Schmidt</i>	
Bounded Rational Search for On-the-Fly Model Checking of LTL Properties	292
<i>Razieh Behjati, Marjan Sirjani, and Majid Nili Ahmadabadi</i>	
Automated Translation and Analysis of a ToolBus Script for Auctions	308
<i>Wan Fokkink, Paul Klint, Bert Lisser, and Yaroslav S. Usenko</i>	
Executable Interface Specifications for Testing Asynchronous Creol Components	324
<i>Immo Grabe, Marcel Kias, Martin Steffen, and Arild B. Torjusen</i>	
Compositional Strategy Mapping	340
<i>Gregor Gössler</i>	
A Sound Analysis for Secure Information Flow Using Abstract Memory Graphs	355
<i>Dorina Ghindici, Isabelle Simplot-Ryl, and Jean-Marc Talbot</i>	
Refinement Patterns for Hierarchical UML State Machines	371
<i>Jens Schönborn and Marcel Kias</i>	
Specification and Validation of Behavioural Protocols in the rCOS Modeler	387
<i>Zhenbang Chen, Charles Morisset, and Volker Stolz</i>	
The Interplay between Relationships, Roles and Objects	402
<i>Matteo Baldoni, Guido Boella, and Leendert van der Torre</i>	
A Coordination Model for Interactive Components	416
<i>Marco A. Barbosa, Luis S. Barbosa, and José C. Campos</i>	

Session 3. Short Papers

Evolution Control in MDE Projects: Controlling Model and Code
Co-evolution 431
 Jacky Estublier, Thomas Leveque, and German Vega

An xADL Extension for Managing Dynamic Deployment in Distributed
Service Oriented Architectures 439
 *Mohamed Nadhmi Miladi, Ikbel Krichen, Mohamed Jmaiel, and
 Khalil Drira*

A First Step towards Security Policy Compliance of Connectors 447
 Sun Meng

A Safe Implementation of Dynamic Overloading in Java-Like
Languages 455
 Lorenzo Bettini, Sara Capecchi, and Betti Venneri

Fundamental Concepts for the Structuring of Functionality into
Modular Parts 463
 Alexander Gruler and Michael Meisinger

Author Index 471