

# Table of Contents

## Invited Talk

Java's Integral Types in PVS .....	1
<i>Bart Jacobs</i>	

## Models

Towards Object-Oriented Graphs and Grammars .....	16
<i>Ana Paula Lüdtke Ferreira and Leila Ribeiro</i>	
A Rewriting Based Model for Probabilistic Distributed Object Systems ...	32
<i>Nirman Kumar, Koushik Sen, José Meseguer, and Gul Agha</i>	
Engineering the SDL Formal Language Definition .....	47
<i>Andreas Prinz and Martin v. Löwis</i>	

## Logic and Verification

A Syntax-Directed Hoare Logic for Object-Oriented Programming Concepts .....	64
<i>Cees Pierik and Frank S. de Boer</i>	
Inheritance of Temporal Logic Properties .....	79
<i>Heike Wehrheim</i>	
Temporal Logic Based Static Analysis for Non-uniform Behaviours .....	94
<i>Matthias Colin, Xavier Thirioux, and Marc Pantel</i>	

## Calculi

The Kell Calculus: Operational Semantics and Type System .....	109
<i>Philippe Bidingier and Jean-Bernard Stefani</i>	
A Calculus for Long-Running Transactions .....	124
<i>Laura Bocchi, Cosimo Laneve, and Gianluigi Zavattaro</i>	
Formal Analysis of Some Timed Security Properties in Wireless Protocols .....	139
<i>Roberto Gorrieri, Fabio Martinelli, Marinella Petrocchi, and Anna Vaccarelli</i>	

## Java and .NET

Inductive Proof Outlines for Monitors in Java .....	155
<i>Erika Ábrahám, Frank S. de Boer, Willem-Paul de Roever, and Martin Steffen</i>	
Proof Scores in the OTS/CafeOBJ Method .....	170
<i>Kazuhiro Ogata and Kokichi Futatsugi</i>	
Managing the Evolution of .NET Programs .....	185
<i>Susan Eisenbach, Vladimir Jurisic, and Chris Sadler</i>	

## UML

On Mobility Extensions of UML Statecharts. A Pragmatic Approach .....	199
<i>Diego Latella and Mieke Massink</i>	
New Operators for the TURTLE Real-Time UML Profile .....	214
<i>Christophe Lohr, Ludovic Apvrille, Pierre de Saqui-Sannes, and Jean-Pierre Courtiat</i>	
Checking Consistency in UML Diagrams: Classes and State Machines ....	229
<i>Holger Rasch and Heike Wehrheim</i>	

## Composition and Verification

Compositional Verification Using CADP of the ScalAgent	
Deployment Protocol for Software Components .....	244
<i>Frédéric Tronel, Frédéric Lang, and Hubert Garavel</i>	
Verification of Distributed Object-Based Systems .....	261
<i>Fernando L. Dotti, Luciana Foss, Leila Ribeiro, and Osmar M. dos Santos</i>	
Design and Verification of Distributed Multi-media Systems .....	276
<i>David Akehurst, John Derrick, and A. Gill Waters</i>	

<b>Author Index</b> .....	293
---------------------------	-----

Formal Methods for Open Object-Based Distributed  
Systems

6th IFIP WG 6.1 International Conference, FMOODS  
2003, Paris, France, November 19, 21, 2003,  
Proceedings

Najm, E.; Nestmann, U.; Stevens, P. (Eds.)

2003, VIII, 340 p., Softcover

ISBN: 978-3-540-20491-6