# Table of Contents

Verifying Temporal Properties of CommUnity Designs ............................... 1  
*Nazareno Aguirre, Germán Regis, and Tom Maibaum*

Precise Scenarios – A Customer-Friendly Foundation for Formal Specifications .............................................. 21  
*Oliver Au, Roger Stone, and John Cooke*

Automated Verification of Security Policies in Mobile Code ........................... 37  
*Chiara Braghin, Natasha Sharygina, and Katerina Barone-Adesi*

Slicing Concurrent Real-Time System Specifications for Verification ............... 54  
*Ingo Brückner*

Slotted-Circus: A UTP-Family of Reactive Theories ..................................... 75  
*Andrew Butterfield, Adnan Sherif, and Jim Woodcock*

Bug Hunting with False Negatives ................................................................. 98  
*Jens Calamé, Natalia Ioustinova, Jaco van de Pol and Natalia Sidorova*

Behavioural Specifications from Class Models .............................................. 118  
*Alessandra Cavarra and James Welch*

Inheriting Laws for Processes with States ..................................................... 138  
*Yifeng Chen*

Probabilistic Timed Behavior Trees ............................................................... 156  
*Robert Colvin, Lars Grunske, and Kirsten Winter*

Guiding the Correction of Parameterized Specifications ............................... 176  
*Jean-François Couchot and Frédéric Dadeau*

Proving Linearizability Via Non-atomic Refinement ..................................... 195  
*John Derrick, Gerhard Schellhorn, and Heike Wehrheim*

Lifting General Correctness into Partial Correctness is ok ............................. 215  
*Steve Dünne and Andy Galloway*

Verifying CSP-OZ-DC Specifications with Complex Data Types and Timing Parameters ................................................................. 233  
*Johannes Faber, Swen Jacobs, and Viorica Sofronie-Stokkermans*

Modelling and Verification of the LMAC Protocol for Wireless Sensor Networks ................................................................. 253  
*Ansgar Fehnker, Lodewijk van Hoesel, and Angelika Mader*
Finding State Solutions to Temporal Logic Queries .......................... 273
Mihaela Gheorghiu, Arie Gurfinkel, and Marsha Chechik

Qualitative Probabilistic Modelling in Event-B ............................... 293
Stefan Hallerstede and Thai Son Hoang

Verifying Smart Card Applications: An ASM Approach ...................... 313
Dominik Haneberg, Holger Grandy, Wolfgang Reif, and Gerhard Schellhorn

Verification of Probabilistic Properties in HOL Using the Cumulative
Distribution Function .......................................................... 333
Osman Hasan and Sofiene Tahar

UTP Semantics for Web Services .............................................. 353
He Jifeng

Combining Mobility with State .................................................. 373
Damien Karkinsky, Steve Schneider, and Helen Treharne

Algebraic Approaches to Formal Analysis of the Mondex Electronic
Purse System ........................................................................... 393
Weiqiang Kong, Kazuhiro Ogata, and Kokichi Futatsugi

Capturing Conflict and Confusion in CSP .................................... 413
Christie Marr (née Bolton)

A Stepwise Development Process for Reasoning About the Reliability
of Real-Time Systems ............................................................. 439
Larissa Meinicke and Graeme Smith

Decomposing Integrated Specifications for Verification ..................... 459
Björn Metzler

Validating Z Specifications Using the ProB Animator and Model
Checker ...................................................................................... 480
Daniel Plagge and Michael Leuschel

Verification of Multi-agent Negotiations Using the Alloy Analyzer ...... 501
Rodion Podorozhny, Sarfraz Khurshid, Dewayne Perry, and Xiaoqin Zhang

Integrated Static Analysis for Linux Device Driver Verification .......... 518
Hendrik Post and Wolfgang Küchlin

Integrating Verification, Testing, and Learning for Cryptographic
Protocols ..................................................................................... 538
Martijn Oostdijk, Vlad Rusu, Jan Tretmans, R.G. de Vries, and
T.A.C. Willemse
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translating FSP into LOTOS and Networks of Automata</td>
<td>558</td>
</tr>
<tr>
<td><em>Gwen Salaün, Jeff Kramer, Frédéric Lang, and Jeff Magee</em></td>
<td></td>
</tr>
<tr>
<td>Common Semantics for Use Cases and Task Models</td>
<td>579</td>
</tr>
<tr>
<td><em>Daniel Sinnig, Patrice Chalin, and Ferhat Khendek</em></td>
<td></td>
</tr>
<tr>
<td>Unifying Theories of Objects</td>
<td>599</td>
</tr>
<tr>
<td><em>Michael Anthony Smith and Jeremy Gibbons</em></td>
<td></td>
</tr>
<tr>
<td>Non-interference Properties for Data-Type Reduction of Communicating Systems</td>
<td>619</td>
</tr>
<tr>
<td><em>Tobe Toben</em></td>
<td></td>
</tr>
<tr>
<td>Co-simulation of Distributed Embedded Real-Time Control Systems</td>
<td>639</td>
</tr>
<tr>
<td><em>Marcel Verhoef, Peter Visser, Jozef Hooman, and Jan Broenink</em></td>
<td></td>
</tr>
<tr>
<td><strong>Author Index</strong></td>
<td>659</td>
</tr>
</tbody>
</table>