

Table of Contents

Invited Contributions and Tutorials

Model-Based Performance Analysis of Service-Oriented Systems (Invited Talk)	1
<i>Dorina C. Petriu</i>	
SCADE: A Comprehensive Framework for Critical System and Software Engineering	2
<i>Thierry Le Sergent</i>	
SDL-2010: Background, Rationale, and Survey	4
<i>Rick Reed</i>	
TASTE: A Real-Time Software Engineering Tool-Chain Overview, Status, and Future	26
<i>Maxime Perrotin, Eric Conquet, Julien Delange, André Schiele, and Thanassis Tsiodras</i>	

Domain Specific Languages (Part 1)

Synthesizing Software Models: Generating Train Station Models Automatically	38
<i>Andreas Svendsen, Øystein Haugen, and Birger Møller-Pedersen</i>	
Exploring Early Availability Requirements Using Use Case Maps	54
<i>Jameleddine Hassine and Abdelouahed Gherbi</i>	
Paprika: Rapid UI Development of Scientific Dataset Editors for High Performance Computing	69
<i>Didier Nassiet, Yohan Livet, Marc Palyart, and David Lugato</i>	

Test

Verifiable Coverage Criteria for Automated Testing	79
<i>Sergey Baranov, Vsevolod Kotlyarov, and Thomas Weigert</i>	
A New Approach in Model-Based Testing: Designing Test Models in TTCN-3	90
<i>Antal Wu-Hen-Chang, Gusztáv Adamis, Levente Erős, Gábor Kovács, and Tibor Csöndes</i>	
Towards a Model Based Approach for Integration Testing	106
<i>Mohamed Mussa and Ferhat Khendek</i>	

Components and Services

Session Initiation as a Service	122
<i>Urooj Fatima, Rolv Bræk, and Humberto Nicolás Castejón</i>	
PMG-Pro: A Model-Driven Development Method of Service-Based Applications.....	138
<i>Selo Sulistyo and Andreas Prinz</i>	
A Model-Driven Framework for Component-Based Development	154
<i>Surya Bahadur Kathayat, Hien Nam Le, and Rolv Bræk</i>	
Separation of Concerns with Transactional Regions.....	168
<i>Thomas Cottenier, Aswin van den Berg, and Thomas Weigert</i>	

Specification and Description Language (SDL)

Real-Time Signaling in SDL	186
<i>Marc Krämer, Tobias Braun, Dennis Christmann, and Reinhard Gotzhein</i>	
Priority Scheduling in SDL	202
<i>Dennis Christmann, Philipp Becker, and Reinhard Gotzhein</i>	
A Model-Based Formalization of the Textual Notation for SDL-UML ...	218
<i>Alexander Kraas</i>	

Domain Specific Languages (Part 2)

Standardizing Variability – Challenges and Solutions	233
<i>Franck Fleurey, Øystein Haugen, Birger Møller-Pedersen, Andreas Svendsen, and Xiaorui Zhang</i>	
MDE4HPC: An Approach for Using Model-Driven Engineering in High-Performance Computing	247
<i>Marc Palyart, David Lugato, Ileana Ober, and Jean-Michel Bruel</i>	
AUTOSAR vs. MARTE for Enabling Timing Analysis of Automotive Applications.....	262
<i>Saoussen Anssi, Sébastien Gérard, Stefan Kuntz, and François Terrier</i>	
Author Index	277