

Contents

Meta-Modelling and Language Engineering

On the Automated Derivation of Domain-Specific UML Profiles	3
<i>Alexander Kraas</i>	
Towards Seamless Hybrid Graphical–Textual Modelling for UML and Profiles	20
<i>Lorenzo Addazi, Federico Ciccozzi, Philip Langer, and Ernesto Posse</i>	
Modeling Architectures of Cyber-Physical Systems	34
<i>Evgeny Kusmenko, Alexander Roth, Bernhard Rumpe, and Michael von Wenckstern</i>	

Model Evolution and Maintenance

Systematic Language Extension Mechanisms for the MontiArc Architecture Description Language	53
<i>Arvid Butting, Arne Haber, Lars Hermerschmidt, Oliver Kautz, Bernhard Rumpe, and Andreas Wortmann</i>	
A Feature-Based Approach for Variability Exploration and Resolution in Model Transformation Migration	71
<i>Davide Di Ruscio, Juergen Etzlstorfer, Ludovico Iovino, Alfonso Pierantonio, and Wieland Schwinger</i>	
On the Influence of Models at Run-Time Traces in Dynamic Feature Location	90
<i>Lorena Arcega, Jaime Font, Øystein Haugen, and Carlos Cetina</i>	

Model-Driven Generative Development

cMoflon: Model-Driven Generation of Embedded C Code for Wireless Sensor Networks	109
<i>Roland Kluge, Michael Stein, David Giessing, Andy Schürr, and Max Mühlhäuser</i>	
Self-adaptive UIs: Integrated Model-Driven Development of UIs and Their Adaptations	126
<i>Enes Yigitbas, Hagen Stahl, Stefan Sauer, and Gregor Engels</i>	

Iterative Model-Driven Development of Software Extensions for Web Content Management Systems	142
<i>Dennis Priefer, Peter Kneisel, and Daniel Strüßer</i>	

Model Consistency Management

Efficient Consistency Checking of Interrelated Models.	161
<i>Harald König and Zinovy Diskin</i>	

Finding Achievable Features and Constraint Conflicts for Inconsistent Metamodels.	179
<i>Hao Wu</i>	

Model Consistency for Distributed Collaborative Modeling	197
<i>Gerson Sunyé</i>	

Model Verification and Analysis

Model-Based Privacy Analysis in Industrial Ecosystems	215
<i>Amir Shayan Ahmadian, Daniel Strüßer, Volker Riediger, and Jan Jürjens</i>	

Formulating Model Verification Tasks Prover-Independently as UML Diagrams.	232
<i>Martin Gogolla, Frank Hilken, Philipp Niemann, and Robert Wille</i>	

Modeling and Formal Analysis of Probabilistic Complex Event Processing (CEP) Applications	248
<i>Hichem Debbi</i>	

Experience Reports, Case Studies, and New Application Scenarios

Example-Driven Web API Specification Discovery	267
<i>Hamza Ed-douibi, Javier Luis Cánovas Izquierdo, and Jordi Cabot</i>	

Technology-Preserving Transition from Single-Core to Multi-core in Modelling Vehicular Systems	285
<i>Alessio Bucaioni, Saad Mubeen, Federico Ciccozzi, Antonio Cicchetti, and Mikael Sjödin</i>	

On the Opportunities of Scalable Modeling Technologies: An Experience Report on Wind Turbines Control Applications Development.	300
<i>Abel Gómez, Xavier Mendialdua, Gábor Bergmann, Jordi Cabot, Csaba Debrecei, Antonio Garmendia, Dimitrios S. Kolovos, Juan de Lara, and Salvador Trujillo</i>	

Author Index	317
-------------------------------	------------

Modelling Foundations and Applications

13th European Conference, ECMFA 2017, Held as Part
of STAF 2017, Marburg, Germany, July 19-20, 2017,
Proceedings

Anjorin, A.; Espinoza, H. (Eds.)

2017, XIV, 317 p. 131 illus., Softcover

ISBN: 978-3-319-61481-6