

Contents

Modeling and Specification

Orchestration Combinators in Apla+ Language	3
<i>Zhen You and Jinyun Xue</i>	
On Termination and Boundedness of Nested Updatable Timed Automata. . . .	15
<i>Yuwei Wang, Xiuting Tao, and Guoqiang Li</i>	
Instant-Based and State-Based Analysis of Infinite Logical Clock	32
<i>Qingguo Xu, Huaikou Miao, Robert de Simone, and Julien DeAntoni</i>	

Animation and Prototyping

Automated Safety Analysis on Scenario-Based Requirements for Train Control System	55
<i>Xi Wang, Huaikou Miao, and Weikai Miao</i>	
A Case Study of a GUI-Aided Approach to Constructing Formal Specifications	74
<i>Fumiko Nagoya and Shaoying Liu</i>	
Formal Development of Linear Structure Reusable Components in PAR Platform	85
<i>Qimin Hu, Jinyun Xue, and Zhen You</i>	

Verification and Validation

E-SSL: An SSL Security-Enhanced Method for Bypassing MITM Attacks in Mobile Internet	101
<i>Ren Zhao, Xiaohong Li, Guangquan Xu, Zhiyong Feng, and Jianye Hao</i>	
A Proof System for MSVL Programs in Coq	121
<i>Lin Qian, Zhenhua Duan, Nan Zhang, and Cong Tian</i>	
Runtime Verification Monitor Construction for Three-valued PPTL.	144
<i>Xiaobing Wang, Dongmiao Liu, Liang Zhao, and Yina Xue</i>	
Applying SOFL to a Railway Interlocking System in Industry	160
<i>Juan Luo, Shaoying Liu, Yanqin Wang, and Tingliang Zhou</i>	

Model Checking

SMT-based Bounded Model Checking for Cooperative Software with a Deterministic Scheduler	181
<i>Haitao Zhang and Yonggang Lu</i>	
Model Checking of a Mobile Robots Perpetual Exploration Algorithm.	201
<i>Ha Thi Thu Doan, François Bonnet, and Kazuhiro Ogata</i>	
A Visual Modeling Language for MSVL	220
<i>Xinfeng Shu, Chao Li, and Chang Liu</i>	
Author Index	239

Structured Object-Oriented Formal Language and
Method

6th International Workshop, SOFL+MSVL 2016, Tokyo,
Japan, November 15, 2016, Revised Selected Papers

Liu, S.; Duan, Z.; Tian, C.; Nagoya, F. (Eds.)

2017, X, 239 p. 71 illus., Softcover

ISBN: 978-3-319-57707-4