

Contents

A Model-Driven Framework for Hardware-Software Co-design of Dataflow Applications	1
<i>Waheed Ahmad, Bugra M. Yildiz, Arend Rensink, and Mariëlle Stoelinga</i>	
Symbolic Analysis of Hybrid Systems Involving Numerous Discrete Changes Using Loop Detection.	17
<i>Kenichi Betsuno, Shota Matsumoto, and Kazunori Ueda</i>	
SysML to NuSMV Model Transformation via Object-Orientation	31
<i>Georgiana Caltais, Florian Leitner-Fischer, Stefan Leue, and Jannis Weiser</i>	
CyFuzz: A Differential Testing Framework for Cyber-Physical Systems Development Environments	46
<i>Shafiul Azam Chowdhury, Taylor T. Johnson, and Christoph Csallner</i>	
Ardán: Using 3D Game Engines in Cyber-Physical Simulations (Tool Paper).	61
<i>Fergus Leahy and Naranker Dulay</i>	
Proving Correctness of Refactorings for Hybrid Simulink Models with Control Flow.	71
<i>Sebastian Schlesinger, Paula Herber, Thomas Göthel, and Sabine Glesner</i>	
Automated Verification of Switched Systems Using Hybrid Identification . . .	87
<i>Stefan Schwab, Bernd Holzmüller, and Sören Hohmann</i>	
Ontological Reasoning as an Enabler of Contract-Based Co-design	101
<i>Ken Vanherpen, Joachim Denil, Paul De Meulenaere, and Hans Vangheluwe</i>	
CPS Specifier – A Specification Tool for Safety-Critical Cyber-Physical Systems	116
<i>Jonas Westman, Mattias Nyberg, and Oscar Thydén</i>	
Author Index	127

Cyber Physical Systems. Design, Modeling, and
Evaluation

6th International Workshop, CyPhy 2016, Pittsburgh,
PA, USA, October 6, 2016, Revised Selected Papers

Berger, C.; Mousavi, M.R.; Wisniewski, R. (Eds.)

2017, XI, 127 p. 47 illus., Softcover

ISBN: 978-3-319-51737-7