

Table of Contents

Self-Reconfigurable Manufacturing System For Personalized Mass Customisation <i>Rotimi Ogunsakin, Cesar Marin, and Nikolay Mehandjiev</i>	1
Low Power Tristate Buffer for Mobile Applications <i>Karol Niewiadomski and Dietmar Tutsch</i>	9
Adaptive Petri Nets – A Petri Net Extension for Reconfigurable Structures <i>Carl Mai, Rene Schone, Johannes Mey, Thomas Kuhn, and Uwe Assmann</i>	15
Managing Communication Paradigms with a Dynamic Adaptive Middleware <i>Tim Warnecke, Karina Rehfeldt, and Andreas Rausch</i>	24
Towards A Cubesat Autonomicity Capability Model <i>Clement Gama, Roy Sterritt, George Wilkie, and Glenn Hawe</i>	34
Improvement of Self-optimizing in Selection and Composition of Services Using Reinforcement Learning Algorithm Based on Convex Hull <i>Hadis Khorasaninasab Abbasi and Eslam Nazemi</i>	44
Conception of a Type-based Pub/Sub Mechanism with Hierarchical Channels for a Dynamic Adaptive Component Model <i>Mohamad Ibrahim, Karina Rehfeldt, and Andreas Rausch</i>	53
Distributed Simulation for Evolutionary Design of Swarms of Cyber-Physical Systems <i>Micha Rappaport, Davide Conzon, Midhat Jdeed, Melanie Schranz, Enrico Ferrera, and Wilfried Elmenreich</i>	60
Automated and Connected Driving in Urban Scenarios <i>Maximilian Flormann, Adrian Sonka, and Roman Henze</i>	66
Highly Accurate Map-based Path and Behavior Planning for Automated Urban Driving <i>Bjorn Reuber, Holger Znamiec, Roman Henze, and Ferit Kucukay</i>	69
Vehicle Antenna-Footprint Optimization for Efficient MIMO V2X Communications <i>Andreas Pfadler, Christian Ballesteros, Jordi Romeu, and Lluís Jofre</i>	71
Improving Thermal Management of Electric Vehicles by Prediction of Thermal Disturbance Variables <i>Peter Engel, Sebastian Meise, Andreas Rausch, and Wilhelm Tegethoff Tegethoff</i>	75
Long-Term Environment Prediction for Model Predictive Control in Vehicles: Pattern Recognition upon Primitive Driving Behavior and Driver Condition <i>Karl-Falco Storm, Daniel Eckardt, Meng Zhang, Jorg Grieser, Michael Prilla, and Rausch Andreas</i>	84

Towards Cross-domain Release Engineering - Potentials and Challenges for Automotive Industry <i>David Inkermann, Tobias Huth, and Thomas Vietor</i>	93
Towards Alignment of Processes, Tools, and Products in Automotive Software Systems Development <i>Joachim Schramm, Andreas Rausch, Daniel Fiebig, Oscar Slotosch, and Mohammad Abu-Alqumsan</i>	100
Barcelona Virtual Mobility Lab -The Multimodal Transport Simulation Testbed for Emerging Mobility Concepts Evaluation <i>Lidia Montero, Maria Paz Linares, Juan Salmeron, Gonzalo Recio, Ester Lorente, and Juan Jose Vazquez</i>	107