

## Table of Contents

Model-based Run-Time Software Adaptation for Distributed Hierarchical Service Coordination <i>Hassan Gomaa and Koji Hashimoto</i>	1
Towards a More Rigorous Foundation of Complex Adaptive Systems in Management Science: Dealing with Misnomers and Metaphors <i>Leslie Klieb, Merle Rhoades, and Bill McKelvey</i>	7
Towards Systematic Design of Adaptive Fault Tolerant Systems <i>Elena Troubitsyna and Kashif Javed</i>	15
Moving Towards a Distributed Network of Proactive, Self-Adaptive and Context-Aware Systems <i>Remus-Alexandru Dobrican and Denis Zampunieris</i>	22
DAiSI—A Component Model and Decentralized Configuration Mechanism for Dynamic Adaptive Systems <i>Holger Klus and Andreas Rausch</i>	27
An Adaptive Middleware for Near-Time Processing of Bulk Data <i>Martin Swientek, Bernhard Humm, Paul Dowland, and Udo Bleimann</i>	37
Intermittently Updated Simplified Proportionate Affine Projection Algorithm <i>Felix Albu, Henri Coanda, Dinu Coltuc, and Marius Rotaru</i>	42
Application Independent Modeling and Simulation Environment for Systems with Self-aware and Self-expressive Capabilities <i>Tatiana Djaba Nya and Stephan C. Stilkerich</i>	48
Automated Fault Analysis and Filter Generation for Adaptive Cybersecurity <i>David Musliner, Scott Friedman, and Jeffrey Rye</i>	56
Sensor-Hub: A Real-Time Data Integration and Processing Nexus for Adaptive C2 Systems <i>Jean-Francois Gagnon, Daniel Lafond, Martin Rivest, Francois Couderc, and Sebastien Tremblay</i>	63
HCI Dilemmas for Context-Aware Support in Intelligence Analysis <i>Daniel Lafond, Rene Proulx, Alexis Morris, William Ross, Alexandre Bergeron-Guyard, and Mihaela Ulieru</i>	68
Driving Style Recognition for Co-operative Driving: A Survey <i>Anastasia Bolovinou, Angelos Amditis, Francesco Bellotti, and Mikko Tarkiainen</i>	73
A Dynamic Service Module Oriented Framework for Real-World Situation Representation <i>Peter Halbmayer, Gerold Hoelzl, and Alois Ferscha</i>	79

Performance Evaluation of Reconfiguration Algorithms for the Reconfigurable Network on Chip Architecture RecMIN <i>Alexander Logvinenko and Dietmar Tutsch</i>	85
Self-Adaptive Containers: Functionality Extensions and Further Case Study <i>Wei-Chih Huang and William Knottenbelt</i>	92
An Adaptive Approach to Self-Healing in an Intelligent Environment <i>Guanitta Brady, Roy Sterritt, and George Wilkie</i>	99
OfficeMate: A Study of an Online Learning Dialog System for Mobile Assistive Robots <i>Steffen Muller, Sina Sprenger, and Horst-Michael Gross</i>	104
A Black Box Validation Strategy for Self-adaptive Systems <i>Georg Puschel, Christian Piechnick, Sebastian Gotz, Christoph Seidl, Sebastian Richly, and Uwe Assmann</i>	111
A First Step Towards a Dependability Framework for Smart Environment Applications <i>Ehsan Ullah Warriach, Tanir Ozcelebi, and Johan J. Lukkien</i>	117
ContextPoint: An Architecture for Extrinsic Meta-Adaptation in Smart Environments <i>Christian Piechnick, Sebastian Richly, Thomas Kuhn, Sebastian Gotz, Georg Puschel, and Uwe Assmann</i>	121
Adaptive Scheduling of Smart Home Appliances Using Fuzzy Goal Programming <i>Honggang Bu and Kendall Nygard</i>	129