Table of Contents

Mobile Code Security in Contemporary Information Systems - Past, Present and Trends Denis Treek and Marko Bajec	1
A Trusted Information Agent for Security Information and Event Management Luigi Coppolino, Michael Jager, Nicolai Kuntze, and Roland Rieke	6
New Approach to Mitigating Distributed Service Flooding Attacks Mehmud Abliz and Taieb Znati	13
Architecture of a Security and Surveillance System Florian Segor, Axel Burkle, Sven Muller, Rainer Schonbein, and Matthias Kollmann	20
Reliability Aspects of Uniformly Parameterised Cooperations Peter Ochsenschlager and Roland Rieke	25
System Reverse Engineering to Requirements and Tests Qi Zhang and Andreas Karcher	35
Context ontology for Event-Driven Information Systems Ana Sasa Bastinos and Marjan Krisper	39
A Top-Down-View on Intelligent Surveillance Systems Yvonne Fischer and Jurgen Beyerer	43
Designing a Fault-Tolerant Satellite System in SystemC Kashif Javed and Elena Troubitsyna	49
How About Agile Systems Development? Hermann Kaindl, Edin Arnautovic, and Jurgen Falb	55
Towards Applying Normalized Systems Concepts to Modularity and the Systems Engineering Process Peter De Bruyn and Herwig Mannaert	59
In Search of Rules for Evolvable and Stateful run-time Deployment of Controllers in Industrial Automation Systems Dirk van der Linden and Herwig Mannaert	67
Towards the Explicitation of Hidden Dependencies in the Module Interface Dirk van der Linden, Herwig Mannaert, and Peter De Bruyn	73

A Framework for Cyber-Physical Systems Design – A Concept Study Ondrej Rysavy, Miroslav Sveda, and Radimir Vrba	79
ISA-95 Tool for Enterprise Modeling Dazhuang He, Andrei Lobov, and Jose Luis Martinez Lastra	83
Evaluating Service-Oriented Orchestration Schemes for Controlling Pallet Flow Johannes Minor, Jorge Garcia, Jacaan Martinez, Andrei Lobov, and Jose Luis Martinez Lastra	88
Exploring Entropy in Software Systems: Towards a Precise Definition and Design Rules Herwig Mannaert, Peter De Bruyn, and Jan Verelst	93
MDE-based QoS management framework for RTDB management systems development Salwa M'barek, Leila Baccouche, and Henda Ben Ghezala	100
Examining Challenges in IT Service Desk System and Processes: A Case Study Marko Jantti	105
Branching Program-Based Programmable Logic for Embedded Systems Vaclav Dvorak	109
Orchestration Driven by Formal Specification Charif Mahmoudi and Fabrice Mourlin	116
Optimized Testing Process in Vehicles Using an Augmented Data Logger Karsten Hunlich, Daniel Ulmer, Steffen Wittel, and Ulrich Brockl	123
Providing In-house Support to Disabled People Through Interactive Television Begona Fuentes Merino, Miguel Angel Gomez Carballa, Carlos Rivas Costa, Jose Ramon Fernandez Bernardez, Ruben Miguez Perez, Manuel Jose Fernandez Iglesias, and Luis Anido Rifon	129
The Pervasive Fridge. A smart computer system against uneaten food loss. Jose Rouillard	135
A Graphical Development Tool for Earth System Model Using Component Description Language Chao Tan, Sujun Cheng, Zhongzhi Luan, Si Ye, Wenjun Li, and Depei Qian	141
Magnetic Resonance Signal Processing in Medical Applications Jan Mikulka, Eva Gescheidtova, and Karel Bartusek	148
Magnetic Susceptibility Measurement from Spatially Mapped Reaction Field Petr Marcon, Eva Gescheidtova, and Karel Bartusek	154

Hierarchical PLABs, CLABs, TLABs in Hotspot Hannes Payer, Christoph M. Kirsch, and Harald Roeck	158
Intelligent Processing of Video Streams for Visual Customer Behavior Analysis Johannes Krockel and Freimut Bodendorf	163
A Cellular Automata Model for Wireless Sensor Networks Yijun Wang, Zhihong Qian, Dayang Sun, and Ce Zhou	169
Intelligent Safety Verification for Pipeline Process Order Control Based on EVALPSN Kazumi Nakamatsu, Jair Abe, and Seiki Akama	175
Secure communication based on indirect coupled synchronization Rupak Kharel, Krishna Busawon, and Zabih Ghassemlooy	184
Requirements Engineering for Software vs. Systems in General Hermann Kaindl, Marko Jantti, Herwig Mannaert, Kazumi Nakamatsu, and Roland Rieke	190
Radial Basis Functions for High-Dimensional Visualization Vaclav Skala	193
Visual Data Mining Using the Point Distribution Tensor Marcel Ritter, Werner Benger, Biagio Cosenza, Keera Pullman, Hans Moritsch, and Wolfgang Leimer	199
3D visualizations for supporting social awareness in learning communities Ekaterina Prasolova-Forland	203
A new Robust Method of Line Detection in a Structured Light System Hussam Yousef, Regis Huez, Laurent Hussenet, and Michel Herbin	207
Finding 3D Positions from 2D Images Feasibility Analysis Hannagala Gamage Lochana Prematunga and Anuja T Dharmaratne	214
Interpolation and Intersection Algorithms and GPU Vaclav Skala	218
Quaternion Lifting Scheme for Multi-resolution Wavelet-based Motion Analysis Agnieszka Szczesna, Janusz Slupik, and Mateusz Janiak	223