

Table of Contents

Embedding and Detecting Patterns in a 3D Printed Object <i>Kosuke Nakamura, Masahiro Suzuki, Hideyuki Torii, Kazutake Uehira, and Youichi Takashima</i>	1
Detection of Hidden Encrypted URL In Image Steganography <i>Moudhi Aljamea, Tanver Athar, Costas Iliopoulos, and Mohammad Samiruzzaman</i>	3
Optical Watermark Pattern Technique using Color–Difference Modulation <i>Kazutake Uehira and Hiroshi Unno</i>	9
A Study Setup Optimization - Providing Solutions with Patterns <i>Artur Lupp, Alexander G. Mirnig, Andreas Uhl, and Manfred Tscheligi</i>	11
Patterns as Formulas: Patterns in the Digital Humanities <i>Johanna Barzen and Frank Leymann</i>	17
Declarative vs. Imperative: Two Modeling Patterns for the Automated Deployment of Applications <i>Christian Endres, Uwe Breitenbacher, Michael Falkenthal, Oliver Kopp, Frank Leymann, and Johannes Wettinger</i>	22
Towards Scenario-based Discovery of Domain-Specific Patterns: a Case Study <i>Philip Huysmans, Jan Verelst, and Gilles Oorts</i>	28
Toward Evolvable Document Management for Study Programs Based on Modular Aggregation Patterns <i>Gilles Oorts, Herwig Mannaert, and Ilke Franquet</i>	34
On the Modular Structure and Evolvability of Architectural Patterns for Housing Utilities <i>Peter De Bruyn, Jeroen Faes, Tom Vermeire, and Jasper Bosmans</i>	40
Exploring Evolvable Modular Patterns for Transportation Vehicles and Logistics Architectures <i>Peter De Bruyn, Herwig Mannaert, and Philip Huysmans</i>	46
The Social Picture <i>Sebastiano Battiato, Giovanni Maria Farinella, Filippo Luigi Maria Milotta, Alessandro Ortis, Luca Addesso, Antonino Casella, Valeria D'Amico, and Giovanni Torrisi</i>	52
Mass Events Monitoring Through Crowdsourced Media Analysis <i>Marco Cavallo, Ermanno Guardo, Alessandro Ortis, Marco Sapienza, and Giuseppe La Torre</i>	54
Easing Pattern Application by Means of Solution Languages <i>Michael Falkenthal and Frank Leymann</i>	58

(Don't) Join the Dark Side: An Initial Analysis and Classification of Regular, Anti-, and Dark Patterns <i>Alexander G. Mirnig and Manfred Tscheligi</i>	65
An Automated Method for the Detection of Topographic Patterns at Tectonic Boundaries <i>Bobak Karimi and Hassan Karimi</i>	72
Analyzing User Generated Content on Instagram: the Case of Travel Agencies <i>Rony Germon, Karina Sokolova, and Adil Bami</i>	78
Analysing Human Migrations Patterns Using Digital Social Network Analysis <i>Charles Perez</i>	82
Temporal Patterns: Smart-type Reasoning and Applications <i>Dineshen Chuckravanen, Jacqueline W. Daykin, Karen Hunsdale, and Amar Seem</i>	88
Trie Compression for GPU Accelerated Multi-Pattern Matching <i>Xavier Bellekens, Amar Seeam, Christos Tachtatzis, and Robert Atkinson</i>	93
A Data Adjustment Method of Low-priced Data-glove based on Hand Motion Pattern <i>Kenji Funahashi, Yutaro Mori, Hiromasa Takahashi, and Yuji Iwahori</i>	97
Obtaining Shape from Endoscope Image Using Medical Suture with Two Light Sources <i>Hiroyasu Usami, Yuji Iwahori, Boonserm Kijsirikul, Manas Kamal Bhuyan, Aili Wang, and Kunio Kasugai</i>	103
Polyp Classification Using Multiple CNN-SVM Classifiers from Endoscope Images <i>Masataka Murata, Hiroyasu Usami, Yuji Iwahori, Wang Aili, Naotaka Ogasawara, and Kunio Kasugai</i>	109
Detection and Classification of Defective Electronic Circuit Boards Using CNN Features and Keypoint Extraction <i>Yohei Takada, Tokiko Shiina, Hiroyasu Usami, Yuji Iwahori, and Bhuyan Manas Kamal</i>	113
Internet of Things Patterns for Devices <i>Lukas Reinfurt, Uwe Breitenbacher, Michael Falkenthal, Frank Leymann, and Andreas Riegg</i>	117
The Privacy Research Community in Computing and Information Technology <i>Charles Perez and Karina Sokolova</i>	127
Domain-Oriented Design Patterns For Service Processes <i>Maik Herfurth and Thomas Schuster</i>	134