

Contents

Part I: Knowledge Processing in Agent and Multiagent Systems

Chapter 1: A Multiagent System for Consensus-Based Integration of Semi-hierarchical Partitions - Theoretical Foundations for the Integration Phase	3
<i>Radosław P. Katarzynyak, Grzegorz Skorupa, Michał Adamski, Łukasz Burdka</i>	
Chapter 2: Practical Aspects of Knowledge Integration Using Attribute Tables Generated from Relational Databases	13
<i>Stanisława Kluska-Nawarecka, Dorota Wilk-Kotodziejczyk, Krzysztof Regulski</i>	
Chapter 3: A Feature-Based Opinion Mining Model on Product Reviews in Vietnamese	23
<i>Tien-Thanh Vu, Huyen-Trang Pham, Cong-To Luu, Quang-Thuy Ha</i>	
Chapter 4: Identification of an Assessment Model for Evaluating Performance of a Manufacturing System Based on Experts Opinions	35
<i>Tomasz Wiśniewski, Przemysław Korytkowski</i>	
Chapter 5: The Motivation Model for the Intellectual Capital Increasing in the Knowledge-Base Organization	47
<i>Przemysław Różewski, Oleg Zaikin, Emma Kusztiņa, Ryszard Tadeusiewicz</i>	
Chapter 6: Visual Design of Drools Rule Bases Using the XTT2 Method	57
<i>Krzysztof Kaczor, Grzegorz Jacek Nalepa, Łukasz Łysik, Krzysztof Kluza</i>	
Chapter 7: New Possibilities in Using of Neural Networks Library for Material Defect Detection Diagnosis	67
<i>Ondrej Krejcar</i>	
Chapter 8: Intransitivity in Inconsistent Judgments	81
<i>Amir Homayoun Sarfaraz, Hamed Maleki</i>	

Part II: Computational Collective Intelligence in Knowledge Management

Chapter 9: A Double Particle Swarm Optimization for Mixed-Variable Optimization Problems	93
<i>Chaoli Sun, Jianchao Zeng, Jengshyang Pan, Shuchuan Chu, Yunqiang Zhang</i>	
Chapter 10: Particle Swarm Optimization with Disagreements on Stagnation	103
<i>Andrei Lihu, Ștefan Holban</i>	
Chapter 11: Classifier Committee Based on Feature Selection Method for Obstructive Nephropathy Diagnosis	115
<i>Bartosz Krawczyk</i>	
Chapter 12: Construction of New Cubature Formula of Degree Eight in the Triangle Using Genetic Algorithm	127
<i>Grzegorz Kusztełak, Jacek Stańdo</i>	
Chapter 13: Affymetrix Chip Definition Files Construction Based on Custom Probe Set Annotation Database	135
<i>Michał Marczyk, Roman Jaksik, Andrzej Polański, Joanna Polańska</i>	

Part III: Models for Collectives of Intelligent Agents

Chapter 14: Advanced Methods for Computational Collective Intelligence	147
<i>Ngoc Thanh Nguyen, Radosław P. Katarzyniak, Janusz Sobecki</i>	
Chapter 15: Identity Criterion for Living Objects Based on the Entanglement Measure	159
<i>Mariusz Nowostawski, Andrzej Gecow</i>	
Chapter 16: Remedial English e-Learning Study in Chance Building Model	171
<i>Chia-Ling Hsu</i>	
Chapter 17: Using IPC-Based Clustering and Link Analysis to Observe the Technological Directions	183
<i>Tzu-Fu Chiu, Chao-Fu Hong, Yu-Ting Chiu</i>	
Chapter 18: Using the Advertisement of Early Adopters' Innovativeness to Investigate the Majority Acceptance	199
<i>Chao-Fu Hong, Tzu-Fu Chiu, Yuh-Chang Lin, Jer-Haur Lee, Mu-Hua Lin</i>	

Chapter 19: The Chance for Crossing Chasm: Constructing the Bowling Alley	215
<i>Chao-Fu Hong, Yuh-Chang Lin, Mu-Hua Lin, Woo-Tsong Lin, Hsiao-Fang Yang</i>	

Chapter 20: Visualization of the Technological Evolution of the DVD Business Ecosystem	231
<i>Yan-Ru Li</i>	

Part IV: Models and Environments for Human-Centered Computing

Chapter 21: Discovering Students' Real Voice through Computer-Mediated Dialogue Journal Writing	241
<i>Ai-Ling Wang, Dawn Michele Ruhl</i>	

Chapter 22: The $\mathcal{ALCN}$ Description Logic Concept Satisfiability as a SAT Problem	253
<i>Adam Meissner</i>	

Chapter 23: Embedding the HEART Rule Engine into a Semantic Wiki	265
<i>Grzegorz Jacek Nalepa, Szymon Bobek</i>	

Chapter 24: The Acceptance Model of e-Book for On-Line Learning Environment	277
<i>Wei-Chen Tsai, Yan-Ru Li</i>	

Chapter 25: Human Computer Interface for Handicapped People Using Virtual Keyboard by Head Motion Detection	289
<i>Ondrej Krejcar</i>	

Chapter 26: Automated Understanding of a Semi-natural Language for the Purpose of Web Pages Testing	301
<i>Marek Zachara, Dariusz Pałka</i>	

Chapter 27: Emerging Artificial Intelligence Application: Transforming Television into Smart Television	311
<i>Sasanka Prabhala, Subhashini Ganapathy</i>	

Chapter 28: Secure Data Access Control Scheme Using Type-Based Re-encryption in Cloud Environment	319
<i>Namje Park</i>	

Chapter 29: A New Method for Face Identification and Determining Facial Asymmetry	329
<i>Piotr Milczarski</i>	

Chapter 30: 3W Scaffolding in Curriculum of Database Management and Application – Applying the Human-Centered Computing Systems 341
Min-Huei Lin, Ching-Fan Chen

Chapter 31: Geoparsing of Czech RSS News and Evaluation of Its Spatial Distribution 353
Jiří Horák, Pavel Belaj, Igor Ivan, Peter Nemec, Jiří Ardielli, Jan Růžička

Author Index 369