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Proceedings, Part II

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Preface

ACIIDS 2017 was the ninth event in a series of international scientific conferences on research and applications in the field of intelligent information and database systems. The aim of ACIIDS 2017 was to provide an international forum for scientific research in the technologies and applications of intelligent information and database systems. ACIIDS 2017 was co-organized by Japan Advanced Institute of Science and Technology (Japan) and Wrocław University of Science and Technology (Poland) in co-operation with IEEE SMC Technical Committee on Computational Collective Intelligence, Quang Binh University, Vietnam, Yeungnam University, South Korea, Bina Nusantara University, Indonesia, Universiti Teknologi Malaysia, and the University of Newcastle, Australia. It took place in Kanazawa (Japan) during April 3–5, 2017.

The conference series ACIIDS is well established. The first two events, ACIIDS 2009 and ACIIDS 2010, took place in Dong Hoi City and Hue City in Vietnam, respectively. The third event, ACIIDS 2011, took place in Daegu (Korea), followed by the fourth event, ACIIDS 2012, which took place in Kaohsiung (Taiwan). The fifth event, ACIIDS 2013, was held in Kuala Lumpur in Malaysia while the sixth event, ACIIDS 2014, was held in Bangkok in Thailand. The seventh event, ACIIDS 2015, took place in Bali (Indonesia). The last event, ACIIDS 2016 was held in Da Nang (Vietnam).

We received more than 400 papers from 42 countries all over the world. Each paper was peer reviewed by at least two members of the international Program Committee and international reviewer board. Only 154 papers with the highest quality were selected for oral presentation and publication in the two volumes of ACIIDS 2017 proceedings.

Papers included in the proceedings cover the following topics: knowledge engineering and Semantic Web, social networks and recommender systems, text processing and information retrieval, intelligent database systems, intelligent information systems, decision support and control systems, machine learning and data mining, computer vision techniques, advanced data mining techniques and applications, intelligent and context systems, multiple model approach to machine learning, applications of data science, artificial intelligence applications for e-services, automated reasoning and proving techniques with applications in intelligent systems, collective intelligence for service innovation, technology opportunity, e-learning and fuzzy intelligent systems, intelligent computer vision systems and applications, intelligent data analysis, applications and technologies for the Internet of Things, intelligent algorithms and brain functions, intelligent systems and algorithms in information sciences, IT in biomedicine, intelligent technologies in smart cities in the twenty-first century, analysis of image, video and motion data in life sciences, modern applications of machine learning for actionable knowledge extraction, mathematics of decision sciences and information science, scalable data analysis in bioinformatics and biomedical informatics, and technological perspectives of agile transformation in IT organizations.

The accepted and presented papers highlight new trends and challenges of intelligent information and database systems. The presenters showed how new research could lead to novel and innovative applications. We hope you will find these results useful and inspiring for your future research.

We would like to extend our heartfelt thanks to Jarosław Gowin, Deputy Prime Minister of the Republic of Poland and Minister of Science and Higher Education, for his support and honorary patronage of the conference.

We would like to express our sincere thanks to the honorary chairs, Prof. Testsuo Asano (President of JAIST, Japan) and Prof. Cezary Madryas (Rector of Wrocław University of Science and Technology, Poland), for their support.

Our special thanks go to the program chairs, special session chairs, organizing chairs, publicity chairs, liaison chairs, and local Organizing Committee for their work for the conference. We sincerely thank all the members of the international Program Committee for their valuable efforts in the review process, which helped us to guarantee the highest quality of the selected papers for the conference. We cordially thank the organizers and chairs of special sessions who contributed to the success of the conference.

We also would like to express our thanks to the keynote speakers (Prof. Tu-Bao Ho, Prof. Bernhard Pfahringer, Prof. Edward Szczerbicki, Prof. Hideyuki Takagi) for their interesting and informative talks of world-class standard.

We cordially thank our main sponsors, Japan Advanced Institute of Science and Technology (Japan), Wrocław University of Science and Technology (Poland), IEEE SMC Technical Committee on Computational Collective Intelligence, Quang Binh University (Vietnam), Yeungnam University (South Korea), Bina Nusantara University (Indonesia), Universiti Teknologi Malaysia (Malaysia), and the University of Newcastle (Australia). Our special thanks are due also to Springer for publishing the proceedings, and to all the other sponsors for their kind support.

We wish to thank the members of the Organizing Committee for their very significant work and the members of the local Organizing Committee for their excellent work.

We cordially thank all the authors, for their valuable contributions, and the other participants of this conference. The conference would not have been possible without their support.

Thanks are also due to many experts who contributed to making the event a success.

April 2017

Ngoc Thanh Nguyen
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Contents – Part II

Applications of Data Science

Exploring Spatial and Social Factors of Crime: A Case Study of Taipei City	3
<i>Nathan Kuo, Chun-Ming Chang, and Kuan-Ta Chen</i>	
A Fuzzy Logic Based Network Intrusion Detection System for Predicting the TCP SYN Flooding Attack	14
<i>Nenekazi Nokuthala Penelope Mkuzangwe and Fulufhelo Vincent Nelwamondo</i>	
Analytical Ideas to Improve Daily Demand Forecasts: A Case Study.	23
<i>Sougata Deb</i>	
Increasing the Detection of Minority Class Instances in Financial Statement Fraud	33
<i>Stephen Obakeng Moepya, Fulufhelo V. Nelwamondo, and Bhekisipho Twala</i>	
Information Technology Services Evaluation Based ITIL V3 2011 and COBIT 5 in Center for Data and Information	44
<i>Firman Hartawan and Jarot S. Suroso</i>	

Artificial Intelligence Applications for E-services

To Solve the TDVRPTW via Hadoop MapReduce Parallel Computing	55
<i>Bo-Yi Li and Chen-Shu Wang</i>	
MapReduce-Based Frequent Pattern Mining Framework with Multiple Item Support	65
<i>Chen-Shu Wang, Shiang-Lin Lin, and Jui-Yen Chang</i>	
Balanced k-Means.	75
<i>Chen-Ling Tai and Chen-Shu Wang</i>	
An Optimal Farmland Allocation E-Service Deployment	83
<i>Wei-Feng Tung and Chun-Liang Pan</i>	

**Automated Reasoning and Proving Techniques with Applications
in Intelligent Systems**

Anticipatory Runway Incursion Prevention Based on Inaccurate Position Surveillance Information	93
<i>Kai Shi, Hai Yu, Zhiliang Zhu, and Jingde Cheng</i>	
The Relation Between Syntax Restriction of Temporal Logic and Properties of Reactive System Specification	105
<i>Noriaki Yoshiura</i>	
Measuring Interestingness of Theorems in Automated Theorem Finding by Forward Reasoning: A Case Study in Peano’s Arithmetic	115
<i>Hongbiao Gao and Jingde Cheng</i>	
A Predicate Suggestion Algorithm for Automated Theorem Finding with Forward Reasoning	125
<i>Yuichi Goto, Hongbiao Gao, and Jingde Cheng</i>	

**Collective Intelligence for Service Innovation, Technology Opportunity,
E-Learning and Fuzzy Intelligent Systems**

Modeling a Multi-criteria Decision Support System for Capital Budgeting Project Selection	137
<i>Kuo-Sui Lin and Jui-Ching Pan</i>	
Innovative Diffusion Chance Discovery	148
<i>Chao-Fu Hong and Mu-Hua Lin</i>	
Chance Discovery in a Group-Trading Model — Creating an Innovative Tour Package with Freshwater Fish Farms at Yilan	157
<i>Pen-Choug Sun, Chao-Fu Hong, Tsu-Feng Kuo, and Rahat Iqbal</i>	
Using Sentiment Analysis to Explore the Association Between News and Housing Prices	170
<i>Hsiao-Fang Yang and Jia-Lang Seng</i>	
Importance-Performance Analysis Based Evaluation Method for Security Incident Management Capability	180
<i>Chih-Chung Chiu and Kuo-Sui Lin</i>	

Intelligent Computer Vision Systems and Applications

Moment Shape Descriptors Applied for Action Recognition in Video Sequences	197
<i>Katarzyna Gościńska and Dariusz Frejlichowski</i>	

Automatic Detection of Singular Points in Fingerprint Images Using Convolution Neural Networks	207
<i>Hong Hai Le, Ngoc Hoa Nguyen, and Tri-Thanh Nguyen</i>	
Vehicle Detection in Hsuehshan Tunnel Using Background Subtraction and Deep Belief Network.	217
<i>Bo-Jhen Huang, Jun-Wei Hsieh, and Chun-Ming Tsai</i>	
Segment Counting Versus Prime Counting in the Ulam Square.	227
<i>Leszek J. Chmielewski, Arkadiusz Orłowski, and Grzegorz Gawdzik</i>	
Improving Traffic Sign Recognition Using Low Dimensional Features.	237
<i>Laksono Kurnianggoro, Wahyono, and Kang-Hyun Jo</i>	
Image Processing Approach to Diagnose Eye Diseases	245
<i>M. Prashasthi, K.S. Shravya, Ankit Deepak, Manjunath Mulimani, and Koolagudi G. Shashidhar</i>	
Weakly-Labelled Semantic Segmentation of Fish Objects in Underwater Videos Using a Deep Residual Network	255
<i>Alfonso B. Labao and Prospero C. Naval Jr.</i>	
A New Feature Extraction in Dorsal Hand Recognition by Chromatic Imaging.	266
<i>Orcan Alpar and Ondrej Krejcar</i>	
Testing the Limits of Detection of the ‘Orange Skin’ Defect in Furniture Elements with the HOG Features	276
<i>Leszek J. Chmielewski, Arkadiusz Orłowski, Grzegorz Wiecek, Katarzyna Śmietanka, and Jarosław Górski</i>	
Intelligent Data Analysis, Applications and Technologies for Internet of Things	
Reaching Safety Vehicular Ad Hoc Network of IoT	289
<i>Shu-Ching Wang, Shih-Chi Tseng, Shun-Sheng Wang, and Kuo-Qin Yan</i>	
Short-Term Load Forecasting in Smart Meters with Sliding Window-Based ARIMA Algorithms.	299
<i>Dima Alberg and Mark Last</i>	
Bus Drivers Fatigue Measurement Based on Monopolar EEG.	308
<i>Chin-Ling Chen, Chong-Yan Liao, Rung-Ching Chen, Yung-Wen Tang, and Tzay-Farn Shih</i>	
An Improved Sleep Posture Recognition Based on Force Sensing Resistors.	318
<i>Yung-Fa Huang, Yi-Hsiang Hsu, Chia-Chi Chang, Shing-Hong Liu, Ching-Chuan Wei, Tsung-Yu Yao, and Chuan-Bi Lin</i>	

Remaining Useful Life Estimation-A Case Study on Soil Moisture Sensors. . .	328
<i>Fang-Chien Chai, Chun-Chih Lo, Mong-Fong Horng, and Yau-Hwang Kuo</i>	

Intelligent Algorithms and Brain Functions

Neurofeedback System for Training Attentiveness.	341
<i>Khuan Y. Lee, Emir Eigram Hidzir, and Muhd Redzuan Haron</i>	
Building Classifiers for Parkinson’s Disease Using New Eye Tribe Tracking Method	351
<i>Artur Szymański, Stanisław Szlufik, Dariusz M. Koziorowski, and Andrzej W. Przybyszewski</i>	
Rules Found by Multimodal Learning in One Group of Patients Help to Determine Optimal Treatment to Other Group of Parkinson’s Patients	359
<i>Andrzej W. Przybyszewski, Stanisław Szlufik, Piotr Habela, and Dariusz M. Koziorowski</i>	

Intelligent Systems and Algorithms in Information Sciences

Reasoning in Formal Systems of Extended RDF Networks.	371
<i>Alena Lukášová, Martin Žáček, and Marek Vajgl</i>	
Big Data Filtering Through Adaptive Resonance Theory	382
<i>Adam Barton, Eva Volna, and Martin Kotyřba</i>	
The Effectiveness of the Simplicity in Evolutionary Computation	392
<i>Michał Witold Przewoźniczek, Krzysztof Walkowiak, and Michał Aibin</i>	
Genetic Algorithm for Self-Test Path and Circular Self-Test Path Design	403
<i>Miłosław Chodacki</i>	

IT in Biomedicine

The Use of Tuned Shape Window for the Improvement of Scars Imaging in Static Renal Scintigraphy in Children.	415
<i>Janusz Paweł Kowalski, Bożena Birkenfeld, Piotr Zorga, Jakub Peksinski, and Grzegorz Mikołajczak</i>	
PCA-SCG-ANN for Detection of Non-structural Protein 1 from SERS Salivary Spectra	424
<i>N.H. Othman, Khuan Y. Lee, A.R.M. Radzol, and W. Mansor</i>	
Prediction of Arterial Blood Gases Values in Premature Infants with Respiratory Disorders	434
<i>Wiesław Wajs, Hubert Wojtowicz, Piotr Wais, and Marcin Ochab</i>	

Extraction of Optical Disc Geometrical Parameters with Using of Active Snake Model with Gradient Directional Information	445
<i>Jan Kubicek, Juraj Timkovic, Marek Penhaker, Martin Augustynek, Iveta Bryjova, and Vladimir Kasik</i>	
Segmentation of Vascular Calcifications and Statistical Analysis of Calcium Score	455
<i>Jan Kubicek, Iveta Bryjova, Jan Valosek, Marek Penhaker, Martin Augustynek, Martin Cerny, and Vladimir Kasik</i>	
Rough Hypercuboid and Modified Kulczynski Coefficient for Disease Gene Identification	465
<i>Ekta Shah and Pradipta Maji</i>	
Detection of Raynaud's Phenomenon by Thermographic Testing for Finger Thermoregulation	475
<i>Orcan Alpar and Ondrej Krejcar</i>	
Intelligent Technologies in the Smart Cities in the 21st Century	
Enhancing Energy Efficiency of Adaptive Lighting Control	487
<i>Adam Sędziwy, Leszek Kotulski, and Artur Basiura</i>	
Comparative Analysis of Selected Algorithms in the Process of Optimization of Traffic Lights	497
<i>K. Małecki, P. Pietruszka, and S. Iwan</i>	
Knowledge Representation Framework for Agent-Based Economic Systems in Smart City Context	507
<i>Martina Husáková and Petr Tučník</i>	
The Principles of Model Building Concepts Which Are Applied to the Design Patterns for Smart Cities	517
<i>Katarzyna Ossowska, Liliana Szewc, and Cezary Orłowski</i>	
Assessment and Optimization of Air Monitoring Network for Smart Cities with Multicriteria Decision Analysis	531
<i>Aleksander Orłowski, Mariusz Marć, Jacek Namieśnik, and Marek Tobiszewski</i>	
Urban Air Quality Forecasting: A Regression and a Classification Approach . . .	539
<i>Kostas Karatzas, Nikos Katsifarakis, Cezary Orłowski, and Arkadiusz Sarzyński</i>	

Analysis of Image, Video and Motion Data in Life Sciences

Ethnicity Distinctiveness Through Iris Texture Features Using Gabor Filters . . .	551
<i>Gugulethu Mabuza-Hocquet, Fulufhelo Nelwamondo, and Tshilidzi Marwala</i>	
Diminishing Variant Illumination Factor in Object Recognition.	561
<i>Ardian Yunanto and Iman Herwidiana Kartowisastro</i>	
Fast Moving UAV Collision Avoidance Using Optical Flow and Stereovision	572
<i>Damian Pęszor, Marzena Wojciechowska, Konrad Wojciechowski, and Marcin Szender</i>	
Towards the Notion of Average Trajectory of the Repeating Motion of Human Limbs.	582
<i>Sven Nõmm, Aaro Toomela, and Ilia Gaichenja</i>	
Interfered Seals and Handwritten Characters Removal for Prescription Images.	592
<i>Wen-Hong Zhang, Teng-Hui Tseng, and Chun-Ming Tsai</i>	
Neuromuscular Fatigue Analysis of Soldiers Using DWT Based EMG and EEG Data Fusion During Load Carriage	602
<i>D.N. Filzah P. Damit, S.M.N. Arossha Senanayake, Owais A. Malik, and Nor Jaidi Tuah</i>	
Manifold Methods for Action Recognition	613
<i>Agnieszka Michalczuk, Kamil Wereszczyński, Jakub Segen, Henryk Josiński, Konrad Wojciechowski, Artur Bąk, Sławomir Wojciechowski, Aldona Drabik, and Marek Kulbacki</i>	
Optical Flow Based Face Anonymization in Video Sequences	623
<i>Kamil Wereszczyński, Agnieszka Michalczuk, Jakub Segen, Magdalena Pawlyta, Artur Bąk, Jerzy Paweł Nowacki, and Marek Kulbacki</i>	
An Analysis of the Centre of Mass Behavior During Treadmill Walking	632
<i>Henryk Josiński, Adam Świtoński, Agnieszka Michalczuk, Konrad Wojciechowski, and Jerzy Paweł Nowacki</i>	
A Bayesian Framework for Chemical Shift Assignment	641
<i>Adam Gonczarek, Piotr Klukowski, Maciej Drwał, and Paweł Świątek</i>	

Modern Applications of Machine Learning for Actionable Knowledge Extraction

Traditional vs. Machine Learning Techniques: Customer Propensity	653
<i>Mamta A. Rajnayak, Snigdha Moitra, and Charu Nahata</i>	
Analytics on the Impact of Leadership Styles and Leadership Outcome	664
<i>Waseem Ahmad and Muhammad Akhtaruzamman</i>	
An Investigation into the Relationship of Strategic Planning Practices and Organizational Performance Using Advanced Data Mining Techniques. . . .	676
<i>Philip Bright, Waseem Ahmad, and Uswa Zahra</i>	

Mathematics of Decision Sciences and Information Science

A Ranking Procedure with the Shapley Value.	691
<i>Aleksei Kondratev and Vladimir Mazalov</i>	
Optimal Design of Robust Combinatorial Mechanisms for Substitutable Goods	701
<i>Maciej Drwal</i>	
Communication and KP-Model.	711
<i>Takashi Matsuhisa</i>	

Scalable Data Analysis in Bioinformatics and Biomedical Informatics

Orchestrating Task Execution in Cloud4PSi for Scalable Processing of Macromolecular Data of 3D Protein Structures	723
<i>Dariusz Mrozek, Artur Klapciński, and Bożena Małyśiak-Mrozek</i>	
Probabilistic Neural Network Inferences on Oligonucleotide Classification Based on Oligo: Target Interaction	733
<i>Abdul Rahiman Anusha and S. S. Vinodchandra</i>	
Scalability of a Genomic Data Analysis in the BioTest Platform	741
<i>Krzysztof Psiuk-Maksymowicz, Dariusz Mrozek, Roman Jaksik, Damian Borys, Krzysztof Fajarewicz, and Andrzej Swierniak</i>	
Quantifying the Effect of Metapopulation Size on the Persistence of Infectious Diseases in a Metapopulation.	753
<i>Cam-Giang Tran-Thi, Marc Choisy, and Jean Daniel Zucker</i>	

Large-Scale Data Classification System Based on Galaxy Server and Protected from Information Leak.	765
<i>Krzysztof Fajarewicz, Sebastian Student, Tomasz Zielański, Michał Jakubczak, Justyna Pieter, Katarzyna Pojda, and Andrzej Świerniak</i>	
Technological Perspective of Agile Transformation in IT organizations	
Agents of RUP Processes Model for IT Organizations Readiness to Agile Transformation Assessment	777
<i>Włodzimierz Wysocki, Cezary Orłowski, Artur Ziółkowski, and Grzegorz Bocewicz</i>	
Evaluation of Readiness of IT Organizations to Agile Transformation Based on Case-Based Reasoning	787
<i>Cezary Orłowski, Tomasz Deręgowski, Miłosz Kurzawski, and Artur Ziółkowski</i>	
Building Dedicated Project Management Process Basing on Historical Experience	798
<i>Cezary Orłowski, Tomasz Deręgowski, Miłosz Kurzawski, and Artur Ziółkowski</i>	
Describing Criteria for Selecting a Scrum Tool Using the Technology Acceptance Model.	811
<i>Gerard Wagenaar, Sietse Overbeek, and Remko Helms</i>	
Author Index	823

Contents – Part I

Knowledge Engineering and Semantic Web

The Knowledge Increase Estimation Framework for Ontology Integration on the Instance Level	3
<i>Adrianna Kozierkiewicz-Hetmańska, Marcin Pietranik, and Bogumiła Hnatkowska</i>	
Online Integration of Fragmented XML Documents.	13
<i>Handoko and Janusz R. Getta</i>	
Merging Possibilistic Belief Bases by Argumentation	24
<i>Thi Hong Khanh Nguyen, Trong Hieu Tran, Tran Van Nguyen, and Thi Thanh Luu Le</i>	
Towards Common Vocabulary for IoT Ecosystems—preliminary Considerations	35
<i>Maria Ganzha, Marcin Paprzycki, Wiesław Pawłowski, Paweł Szmeja, and Katarzyna Wasielewska</i>	
Graphical Interface for Ontology Mapping with Application to Access Control	46
<i>Michał Drozdowicz, Motasem Alwazir, Maria Ganzha, and Marcin Paprzycki</i>	
Influence of Group Characteristics on Agent Voting	56
<i>Marcin Maleszka</i>	
Collective Knowledge: An Enhanced Analysis of the Impact of Collective Cardinality	65
<i>Van Du Nguyen</i>	
A New Ontology-Based Approach for Construction of Domain Model	75
<i>Bogumiła Hnatkowska, Zbigniew Huzar, Lech Tuzinkiewicz, and Iwona Dubielewicz</i>	

Social Networks and Recommender Systems

A Power-Graph Analysis of Non-fast Information Transmission	89
<i>Jacek Mercik</i>	

Group Recommendation Based on the Analysis of Group Influence and Review Content	100
<i>Chin-Hui Lai and Pei-Ru Hong</i>	
On Rumor Source Detection and Its Experimental Verification on Twitter . . .	110
<i>Dariusz Król and Karolina Wiśniewska</i>	
Topic Preference-based Random Walk Approach for Link Prediction in Social Networks	120
<i>Thiamthep Khamket, Arnon Rungsawang, and Bundit Manaskasemsak</i>	
Level of Education and Previous Experience in Acquiring ICT/Smart Technologies by the Elderly People.	130
<i>Ivana Simonova and Petra Poulova</i>	
The Effect of Presentation in Online Advertising on Perceived Intrusiveness and Annoyance in Different Emotional States	140
<i>Kaveh Bakhtiyari, Jürgen Ziegler, and Hafizah Husain</i>	
Runtime Verification and Quality Assessment for Checking Agent Integrity in Social Commerce System	150
<i>Najwa Abu Bakar, Mohd Hafiz Selamat, and Ali Selamat</i>	
Evaluation of Tensor-Based Algorithms for Real-Time Bidding Optimization	160
<i>Andrzej Szwabę, Paweł Misiorek, and Michał Ciesielczyk</i>	
A Consensus-Based Method to Enhance a Recommendation System for Research Collaboration	170
<i>Dinh Tuyen Hoang, Van Cuong Tran, Tuong Tri Nguyen, Ngoc Thanh Nguyen, and Dosam Hwang</i>	
International Business Matching Using Word Embedding.	181
<i>Didier Gohourou, Daiki Kurita, Kazuhiro Kuwabara, and Hung-Hsuan Huang</i>	
Mixture Seeding for Sustainable Information Spreading in Complex Networks	191
<i>Jarosław Jankowski</i>	
Complex Networks in the Epidemic Modelling	202
<i>Tomasz Biegus and Halina Kwasnicka</i>	

Text Processing and Information Retrieval

Identification of Biomedical Articles with Highly Related Core Contents	217
<i>Rey-Long Liu</i>	
An Efficient Hybrid Model for Vietnamese Sentiment Analysis	227
<i>Thanh Hung Vo, Thien Tin Nguyen, Hoang Anh Pham, and Thanh Van Le</i>	
Simple and Accurate Method for Parallel Web Pages Detection	238
<i>Alibi Jangel din and Zhenisbek Assylbekov</i>	
Combining Latent Dirichlet Allocation and K-Means for Documents Clustering: Effect of Probabilistic Based Distance Measures	248
<i>Quang Vu Bui, Karim Sayadi, Soufian Ben Amor, and Marc Bui</i>	
A Hybrid Method for Named Entity Recognition on Tweet Streams	258
<i>Van Cuong Tran, Dinh Tuyen Hoang, Ngoc Thanh Nguyen, and Dosam Hwang</i>	
A Method for User Profile Learning in Document Retrieval System Using Bayesian Network	269
<i>Bernadetta Maleszka</i>	

Intelligent Database Systems

Answering Temporal Analytic Queries over Big Data Based on Precomputing Architecture.	281
<i>Nigel Franciscus, Xuguang Ren, and Bela Stantic</i>	
Functional Querying in Graph Databases	291
<i>Jaroslav Pokorný</i>	
Online Transaction Processing (OLTP) Performance Improvement Using File-Systems Layer Transparent Compression	302
<i>Suhajito and Adrianus B. Kurnadi</i>	
A Multi-database Access System with Instance Matching.	312
<i>Thanapol Phungtua-Eng and Suphamit Chittayasothorn</i>	

Intelligent Information Systems

Enhancing Product Innovation Through Smart Innovation Engineering System.	325
<i>Mohammad Maqbool Waris, Cesar Sanin, and Edward Szczerbicki</i>	

Analyses of Aspects of Knowledge Diffusion Based on the Example of the Green Supply Chain	335
<i>Anna Maryniak and Łukasz Strąk</i>	
Comparative Evaluation of Bluetooth and Wi-Fi Direct for Tablet-Oriented Educational Applications	345
<i>Keiichi Endo, Ayame Onoyama, Dai Okano, Yoshinobu Higami, and Shinya Kobayashi</i>	
Comparing TPC-W and RUBiS via PCA	355
<i>Markus Lumpe and Quoc Bao Vo</i>	
Analysis and Solution Model of Distributed Computing in Scientific Calculations	367
<i>Josef Horalek and Vladimír Soběslav</i>	

Decision Support Control Systems

Failures in Discrete Event Systems and Dealing with Them by Means of Petri Nets.	379
<i>František Čapkovič</i>	
Defining Deviation Sub-spaces for the A*W Robust Planning Algorithm	392
<i>Igor Wojnicki and Sebastian Ernst</i>	
Creative Expert System: Comparison of Proof Searching Strategies	400
<i>Bartłomiej Śniezynski, Grzegorz Legien, Dorota Wilk-Kołodziejczyk, Stanisława Kluska-Nawarecka, Edward Nawarecki, and Krzysztof Jaśkowiec</i>	
Spatial Planning as a Hexomino Puzzle	410
<i>Marcin Cwiek and Jakub Nalepa</i>	
Ramp Loss Support Vector Data Description	421
<i>Vo Xuanthanh, Tran Bach, Hoai An Le Thi, and Tao Pham Dinh</i>	
The Temporal Supplier Evaluation Model Based on Multicriteria Decision Analysis Methods	432
<i>Jarosław Wątróbski, Wojciech Sałabun, and Grzegorz Ladorucki</i>	

Machine Learning and Data Mining

A Novel Entropy-Based Approach to Feature Selection	445
<i>Chia-Hao Tu and Chunshien Li</i>	
An Artificial Player for a Turn-Based Strategy Game	455
<i>Filip Maly, Pavel Kriz, and Adam Mrazek</i>	

Recognizing the Pattern of Binary Hermitian Matrices by a Quantum Circuit	466
<i>Joanna Wiśniewska and Marek Sawerwain</i>	
Fuzzy Maximal Frequent Itemset Mining Over Quantitative Databases.	476
<i>Haifeng Li, Yue Wang, Ning Zhang, and Yuejin Zhang</i>	
A Method for Early Pruning a Branch of Candidates in the Process of Mining Sequential Patterns	487
<i>Bac Le, Minh-Thai Tran, and Duy Tran</i>	
Analyzing Performance of High Frequency Currency Rates Prediction Model Using Linear Kernel SVR on Historical Data	498
<i>Chanakya Serjam and Akito Sakurai</i>	
Unsupervised Language Model Adaptation by Data Selection for Speech Recognition	508
<i>Yerbolat Khassanov, Tze Yuang Chong, Benjamin Bigot, and Eng Siong Chng</i>	
Metaheuristic Optimization on Conventional Freeman Chain Code Extraction Algorithm for Handwritten Character Recognition	518
<i>Muhammad A. Mohamad, Habibollah Haron, and Haswadi Hasan</i>	
A Novel Learning Vector Quantization Inference Classifier	528
<i>Chakkraphop Maisen, Sansanee Auephanwiriyaikul, and Nipon Theera-Umpon</i>	
Mining Periodic High Utility Sequential Patterns.	545
<i>Tai Dinh, Van-Nam Huynh, and Bac Le</i>	
Mining Class Association Rules with Synthesis Constraints	556
<i>Loan T.T. Nguyen, Bay Vo, Hung Son Nguyen, and Sinh Hoa Nguyen</i>	
Towards Auto-structuring Harmony Transcription	566
<i>Marek Kopel</i>	

Computer Vision Techniques

Boosting Detection Results of HOG-Based Algorithms Through Non-linear Metrics and ROI Fusion.	577
<i>Darius Malysiak, Anna-Katharina Römhild, Christoph Nieß, and Uwe Handmann</i>	
Automatic Interactive Video Authoring Method via Object Recognition.	589
<i>Ui-Nyoung Yoon, Myung-Duk Hong, and Geun-Sik Jo</i>	

Target Object Tracking-Based 3D Object Reconstruction in a Multiple Camera Environment in Real Time	599
<i>Jinjoo Song, Heeryon Cho, and Sang Min Yoon</i>	

Boosting Discriminative Models for Activity Detection Using Local Feature Descriptors	609
<i>Van-Huy Pham, My-Ha Le, and Van-Dung Hoang</i>	

Highlights Extraction in Sports Videos Based on Automatic Posture and Gesture Recognition	619
<i>Kazimierz Choroś</i>	

Advanced Data Mining Techniques and Applications

A High-Performance Algorithm for Mining Repeating Patterns	631
<i>Ja-Hwung Su, Tzung-Pei Hong, Chu-Yu Chin, Zhi-Feng Liao, and Shyr-Yuan Cheng</i>	

Recognition of Empathy Seeking Questions in One of the Largest Woman CQA in Japan.	641
<i>Tatsuro Shimada and Akito Sakurai</i>	

A Content-Based Image Retrieval Method Based on the Google Cloud Vision API and WordNet.	651
<i>Shih-Hsin Chen and Yi-Hui Chen</i>	

A Personalized Recommendation Method Considering Local and Global Influences	663
<i>Hendry, Rung-Ching Chen, and Lijuan Liu</i>	

Virtual Balancing of Decision Classes	673
<i>Marzena Kryszkiewicz</i>	

Evaluation of Speech Perturbation Features for Measuring Authenticity in Stress Expressions	685
<i>Branimir Dropuljić, Leo Mršić, Robert Kopal, Sandro Skansi, and Andrijana Brkić</i>	

Intelligent and Context Systems

Context Injection as a Tool for Measuring Context Usage in Machine Learning	697
<i>Maciej Huk</i>	

An Approach for Multi-Relational Data Context in Recommender Systems. . .	709
<i>Nguyen Thai-Nghe, Mai Nhut-Tu, and Huu-Hoa Nguyen</i>	

A Hybrid Feature Selection Method Based on Symmetrical Uncertainty and Support Vector Machine for High-Dimensional Data Classification	721
<i>Yongjun Piao and Keun Ho Ryu</i>	
Selecting Important Features Related to Efficacy of Mobile Advertisements . .	728
<i>Goutam Chakraborty, L.C. Cheng, L.S. Chen, and Cedric Bornand</i>	
A Comparative Study of Evolutionary Algorithms with a New Penalty Based Fitness Function for Feature Subset Selection	738
<i>Atsushi Kawamura and Basabi Chakraborty</i>	
A Context-Aware Fitness Function Based on Feature Selection for Evolutionary Learning of Characteristic Graph Patterns.	748
<i>Fumiya Tokuhara, Tetsuhiro Miyahara, Tetsuji Kuboyama, Yusuke Suzuki, and Tomoyuki Uchida</i>	
Multiple Model Approach to Machine Learning	
Authenticating ANN-NAR and ANN-NARMA Models Utilizing Bootstrap Techniques	761
<i>Nor Azura Md. Ghani, Saadi bin Ahmad Kamaruddin, Norazan Mohamed Ramli, and Ali Selamat</i>	
Method for Aspect-Based Sentiment Annotation Using Rhetorical Analysis. . .	772
<i>Łukasz Augustyniak, Krzysztof Rajda, and Tomasz Kajdanowicz</i>	
On Quality Assesement in Wikipedia Articles Based on Markov Random Fields	782
<i>Rajmund Kleminski, Tomasz Kajdanowicz, Roman Bartusiak, and Przemysław Kazienko</i>	
Is a Data-Driven Approach Still Better Than Random Choice with Naive Bayes Classifiers?.	792
<i>Piotr Szymański and Tomasz Kajdanowicz</i>	
An Expert System to Assist with Early Detection of Schizophrenia	802
<i>Sonya Rapinta Manalu, Bahtiar Saleh Abbas, Ford Lumban Gaol, Lukas, and Bogdan Trawiński</i>	
Author Index	813