17th International Conference
Artificial Intelligence and Soft Computing

Preliminary Program

Zakopane, Poland, June 3-7, 2018

Program at a glance

International Conference Artificial Intelligence and Soft Computing
Zakopane, Poland, June 3-7, 2018

Program at a glance

Sunday, June 3	Monday, June 4	Tuesday, June 5	Wednesday, June 6	Thursday, June 7
	07:30-8:30	**07:30-8:30**	**07:30-8:30**	**07:30-8:30**
	Breakfast, Room: Zakopane	Breakfast, Room: Zakopane	Breakfast, Room: Zakopane	Breakfast, Room: Zakopane
	8:30 - 8:45	**Invited Talks, Chair: J. Grzymala-Busse, Room: Tatry**	Session 8 (Rysy)	
	Opening Ceremony, Room: Tatry	**8:30 - 9:15**	**8:40-9:50**	
	Invited Talks, Chair: L. Rutkowski, Room: Tatry	Andrzej Cichocki	Bioinformatics, Biometrics and Medical App.	
	8:45 - 9:15	**9:15 - 10:00**	Session 9 (Rysy)	
	Jacek Zurada	Andrzej Skowron	**10:00-11:10**	
	9:15 - 10:00	Session 4 (Rysy)	Computer Vision, Image and Speech Analysis	
	Plamen Angelov	**10:20 - 11:30**	Session 10 (Rysy)	
	Session 1 (Rysy)	Evolutionary Algorithms and their Applications 1	**11:20-12:30**	
	10:20 - 11:30	Session 5 (Rysy)	Data Mining	
	Neural Networks and Their Applications 1	**11:40 - 12:50**		
	Session 2 (Rysy)	Evolutionary Algorithms and their Applications 2		
	11:40 - 12:50	Session 11 (Oral, Room: Tatry)		
	Neural Networks and Their Applications 2	**10:20-12:00**		
		Various Problems of Artificial Intelligence		
	13:00 - 14:30	**13:00 - 14:30**	**13:00 - 14:30**	
	Lunch, Room: Zakopane	Lunch, Room: Zakopane	Lunch, Room: Zakopane	
	Invited Talk, Chair: M. Gavrilova, Room: Tatry	Session 6 (Rysy)		
	14:45 - 15:30	**15:00-16:10**	Sightseeing trip	
	Włodzisław Duch	Artificial Intelligence in Modeling, Simul. and Contr.		
	Invited Talks, Chair: B. Wilamowski	Session 7 (Rysy)		
	15:30 - 16:15	**16:20-17:30**		
	Ngoc-Thanh Nguyen	Various Problems of Artificial Intelligence		
	Session 3 (Rysy)			
	16:30-17:40			
	Pattern Classification			
18:00	**18:00**	**18:30**	**18:00 - 19:30**	
Welcome party, Room: Zakopane	Social event, Venue: Outdoor bonfire	Social event (Banquet), Room: Tatry	Dinner, Room: Zakopane	

Detailed Program

Sunday, June 3

18:00

Welcome party
Room: Zakopane

Monday, June 4

07:30 - 8:30

Breakfast, Room: Zakopane

8:30 - 8:45
Opening Ceremony, Room: Tatry
Invited Talks, Chair: L. Rutkowski, Room: Tatry
8:45 - 9:15

Jacek Zurada - IEEE Initiatives in emerging technologies, large data bases and reproducible research

9:15 - 10:00

Plamen Angelov - Empirical Approach to Machine Learning

Session 1: Neural Networks and Their Applications 1 (poster session)
Date/Time: 10:20-11:30, Mon., June 4, 2018
Room: Rysy

Three-dimensional model of signal processing in the presynaptic bouton of the neuron
Andrzej Bielecki, Maciej Gierdziewicz, Piotr Kalita

The parallel modification to the Levenberg-Marquardt algorithm
Jarosław Bilski, Bartosz Kowalczyk, Konrad Grzanek

Modelling Speaker Variability using Covariance Learning
Moses Ekpenyong, Imeh Umoren

A Neural Network model with Bidirectional Whitening
Yuki Fujimoto, Toru Ohira

Block Matching based Obstacle Avoidance for Unmanned Aerial Vehicle
Adomas Ivanovas, Armantas Ostreika, Rytis Maskeliunas, Robertas Damaševičius, Dawid Połap, Marcin Wozniak

Prototype-based kernels for Extreme Learning Machines and Radial Basis Function Networks
Norbert Jankowski

Supervised Neural Network Learning with an Environment Adapted Supervision Based on Motivation Learning Factors
Maciej Janowski, Adrian Horzyk

Autoassociative Signature Authentication based on Recurrent Neural Network

Rokui Jun

American Sign Language Fingerspelling Recognition Using Wide Residual Networks
Kacper Kania, Urszula Markowska-Kaczmar

Neural Networks Saturation Reduction
Janusz Kolbusz, Pawel Rozycki, Oleksandr Lysenko, Bogdan M. Wilamowski

Learning and convergence of the normalized radial basis functions networks
Adam Krzyżak, Marian Partyka

Porous silica-based optoelectronic elements as interconnection weights in Molecular Neural Networks
Magdalena Laskowska, Łukasz Laskowski, Jerzy Jelonkiewicz, Henryk Piech, Zbigniew Filutowicz

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Session 2: Neural Networks and Their Applications 2 (poster session)
Date/Time: 11:40-12:50, Mon., June 4, 2018
Room: Rysy

Data Dependent Adaptive Prediction and Classification of Video Sequences
Amrutha Machireddy, Shayan Srinivasa Garani

Multi-step time series forecasting of the electric load using machine learning models
Shamsul Masum, Ying Liu, John Chiverton

Deep Q-Network using Reward Distribution
Yuta Nakaya, Yuko Osana

Motivated Reinforcement Learning Using Self-Developed Knowledge in Autonomous Cognitive Agent
Piotr Papież, Adrian Horzyk

Company Bankruptcy Prediction with Neural Networks
Jolanta Pozorska and Magdalena Scherer

Soft Patterns Reduction for RBF network performance improvement
Pawel Rozycki, Janusz Kolbusz, Oleksandr Lysenko, Bogdan M. Wilamowski

An Embedded Classifier for Mobile Robot Localization using Support Vector Machines and Gray-Level Co-occurrence Matrix
Fausto Sampaio, Elias Silva Jr, Lucas Silva, Pedro Reboucas Filho

A New Method for Learning RBF Networks by Utilizing Singular Regions
Seiya Satoh, Ryohei Nakano

Cyclic Reservoir Computing with FPGA Devices for Efficient Channel Equalization
Erik S. Skibinksy-Gitlin, Miquel L. Alomar, Christiam F. Frasser, Vincent Canals, Eugeni Isern, Miquel Roca

Discrete Cosine Transform Spectral Pooling Layers for Convolutional Neural Networks

James Smith, Bogdan Wilamowski

Extreme Value Model for Volatility Measure in Machine Learning Ensemble
Ryszard Szupiluk, Paweł Rubach

Deep Networks with RBF Layers to Prevent Adversarial Examples
Petra Vidnerová, Roman Neruda

Application of Reinforcement Learning to Stacked Autoencoder Deep Network Architecture Optimization
Roman Zajdel, Maciej Kusy

13:00 - 14:30

Lunch, Room: Zakopane

Invited Talk, Chair: M. Gavrilova, Room Tatry
14:45 - 15:30

Włodzisław Duch - Fingerprints of brain cognitive activity

Invited Talk, Chair: B. Wilamowski, Room Tatry
15:30 - 16:15

Ngoc-Thanh Nguyen - Modelling Diversity and Autonomy Aspects for Processing Collective Knowledge

Session 3: Pattern Classification (poster session)
Date/Time: 16:30-17:40, Mon., June 4, 2018
Room: Rysy

Integration Base Classifiers in Geometry Space by Harmonic Mean
Robert Burduk

Similarity of Mobile Users Based on Sparse Location History
Pasi Fränti, Radu Mariescu-Istodor, Karol Waga

Probabilistic Feature Selection in Machine Learning
Indrajit Ghosh

Boost Multi-class sLDA model for text classification
Maciej Jankowski

Multi-level Aggregation in Face Recognition

Adam Kiersztyn, Paweł Karczmarek, Witold Pedrycz

Direct Incorporation of L_1-Regularization into Generalized Matrix Learning Vector Quantization
Falko Lischke, Thomas Neumann, Sven Hellbach, Thomas Villmann, Hans-Joachim Böhme

Classifiers for Matrix Normal Images: Derivation and Testing
Ewaryst Rafajłowicz

Modified Relational Mountain Clustering Method
Kristina P. Sinaga, June-Nan Hsieh, Josephine B.M. Benjamin, Miin-Shen Yang

Relative stability of random projection based image classification
Ewa Skubalska-Rafajłowicz

Cost Reduction in Mutation Testing with Bytecode-level Mutants Classification
Joanna Strug, Barbara Strug

Feature selection for 'orange skin' type surface defect in furniture elements
Bartosz Świderski, Michał Kruk, Grzegorz Wieczorek, Jarosław Kurek, Katarzyna Śmietańska, Leszek Chmielewski, Jarosław Górski, Arkadiusz Orłowski

Probabilistic Learning Vector Quantization with Cross-Entropy for Probabilistic Class Assignments in Classification Learning
Andrea Villmann, Marika Kaden, Sascha Saralajew, Thomas Villmann

Multi-class and Cluster Evaluation Measures based on Rényi and Tsallis Entropies and Mutual Information
Thomas Villmann, Tina Geweniger

Verification of results in the acquiring knowledge process based on IBL methodology
Łukasz Wąs, Piotr Milczarski, Zofia Stawska, Sławomir Wiak, Paweł Maślanka, Marek Kot

A Fuzzy Measure for Recognition of Handwritten Letter Strokes
Michał Wróbel, Katarzyna Nieszporek, Janusz Starczewski, Andrzej Cader

Stability of features describing the dynamic signature biometric attribute
Marcin Zalasiński, Krzysztof Cpałka, Konrad Grzanek

18:00

Social event, Venue: Outdoor bonfire

Tuesday, June 5

07:30 - 8:30

Breakfast, Room: Zakopane

Invited Talks, Chair: J. Grzymala-Busse, Room Tatry

8:30 - 9:15

Andrzej Cichocki - Deep learning and tensor networks

9:15 - 10:00

Andrzej Skowron - IGrC: Toward Computing Model for Data Science

Session 4: Evolutionary Algorithms and their Applications 1 (poster session)
Date/Time: 10:20-11:30, Tue., June 5, 2018
Room: Rysy

An Optimization Algorithm Based on Multi-Dynamic Schema of Chromosomes
Radhwan Al-Jawadi, Marcin Studniarski

Eight Bio-inspired Algorithms Evaluated for Solving Optimization Problems
Carlos Eduardo M. Barbosa, Germano C. Vasconcelos

Robotic flow shop scheduling with parallel machines and no-wait constraints in an aluminium anodising plant with the CMAES algorithm
Carina Behr, Jacomine Grobler

Migration Model of Adaptive Differential Evolution Applied to Real-World Problems
Petr Bujok

Comparative Analysis Between Particle Swarm Optimization Algorithms Applied to Price-Based Demand Response
Diego Cavalca, Guilherme Spavieri, Ricardo Fernandes

Visualizing the Optimization Process for Multi-Objective Optimization Problems
Bayanda Chakuma, Marde Helbig

Comparison of Constraint Handling Approaches in Multi-objective Optimization
Rohan Chhipa, Marde Helbig

Genetic Programming for the Classification of Levels of Mammographic Density
Daniel Fajardo-Delgado, María Guadalupe Sánchez, Raquel Ochoa-Ornelas, Ismael Edrein Espinosa-Curiel, Vicente Vidal

Feature Selection using Differential Evolution for Unsupervised Image Clustering

Matheus Gutoski, Manasses Ribeiro, Nelson Aquino, Leandro Hattori, Andre Lazzaretti, Heitor Lopes

A study on solving single stage batch process scheduling problems with an evolutionary algorithm featuring bacterial mutations
Máté Hegyháti, Olivér Ősz, Miklós Hatwágner

Observation of Unbounded Novelty in Evolutionary Algorithms is Unknowable
Eric Holloway, Robert Marks

Multi-Swarm Optimization Algorithm Based on Firefly and Particle Swarm Optimization Techniques
Tomas Kadavy, Michal Pluhacek, Adam Viktorin, Roman Senkerik

New Running Technique for the Bison Algorithm
Anezka Kazikova, Michal Pluhacek, Adam Viktorin, Roman Senkerik

Session 5: Evolutionary Algorithms and their Applications 2 (poster session)
Date/Time: 11:40-12:50, Tue., June 5, 2018
Room: Rysy

Evolutionary Design and Training of Artificial Neural Networks
Lumir Kojecky, Ivan Zelinka

Obtaining Pareto Front in Instance Selection with Ensembles and Populations
Mirosław Kordos, Marcin Wydrzyński, Krystian Łapa

Negative Space-based Population Initialization Algorithm (NSPIA)
Krystian Łapa, Krzysztof Cpałka, Andrzej Przybył, Konrad Grzanek

Deriving Functions for Pareto Optimal Fronts Using Genetic Programming
Armand Maree, Marius Riekert, Marde Helbig

Identifying an Emotional State from Body Movements using Genetic-based Algorithms
Yann Maret, Daniel Oberson , Marina Gavrilova

Particle Swarm Optimization with Single Particle Repulsivity for Multi-modal Optimization
Michal Pluhacek, Roman Senkerik, Adam Viktorin, Tomas Kadavy

Hybrid Evolutionary System to Solve Optimization Problems
Krzysztof Pytel

Horizontal gene transfer as a method of increasing variability in genetic algorithms
Wojciech Rafajłowicz

Evolutionary Induction of Classification Trees on Spark
Daniel Reska, Krzysztof Jurczuk, Marek Kretowski

How Unconventional Chaotic Pseudo-random Generators Influence Population Diversity in Differential Evolution
Roman Senkerik, Adam Viktorin, Michal Pluhacek, Tomas Kadavy, Ivan Zelinka

An Adaptive Individual Inertia Weight Based on Best, Worst and Individual Particle Performances for the PSO Algorithm
Guilherme Spavieri, Diego Cavalca, Ricardo Fernandes, Guilherme Lage

A Mathematical Model and a Firefly Algorithm for an Extended Flexible Job Shop Problem with Availability Constraints
Willian Tessaro Lunardi, Luiz Henrique Cherri, Holger Voos

On the Prolonged Exploration of Distance Based Parameter Adaptation in SHADE
Adam Viktorin, Roman Senkerik, Michal Pluhacek, Tomas Kadavy

Investigating the Impact of Road Roughness on Routing Performance: an Evolutionary Algorithm Approach
Hulda Viljoen, Jacomine Grobler

Session 11: Various Problems of Artificial Intelligence (**oral session**)
Date/Time: 10:20-12:00, Tue., June 5, 2018
Room: Tatry

On the use of Principal Component Analysis and Particle Swarm Optimization in Protein Tertiary Structure Prediction
Óscar Álvarez, Juan Fernández-Martínez, Celia Fernández-Brillet, Ana Cernea, Zulima Fernández-Muniz, Andrzej Kloczkowski

Medoid-shift for noise removal to improve clustering
Pasi Fränti, Jiawei Yang

Dimensionally distributed density estimation
Pasi Fränti, Sami Sieranoja

Random projection for k-means clustering
Sami Sieranoja, Pasi Fränti

Automating Feature Extraction and Feature Selection in Big Data Security Analytics
Dimitrios Sisiaridis, Olivier Markowitch

13:00 - 14:30

Lunch, Room: Zakopane

Session 6: Artificial Intelligence in Modeling, Simulation and Control 1 (poster session)
Date/Time: 15:00-16:10, Tue., June 5, 2018
Room: Rysy

Cascading Probability Distributions in Agent-based Models: An Application to Behavioural Energy Wastage

Fatima Abdallah, Shadi Basurra, Mohamed Medhat Gaber

The Hybrid Plan Controller Construction for Trajectories in Sobolev Space
Krystian Jobczyk, Antoni Ligęza

Temporal Traveling Salesman Problem -- in a Logic- and Graph Theory-based Depiction
Krystian Jobczyk, Piotr Wiśniewski, Antoni Ligęza

Modelling the affective power of locutions in a persuasive dialogue game
Magdalena Kacprzak, Anna Sawicka, Andrzej Zbrzezny

Determination of a matrix of the dependencies between features based on the expert knowledge
Adam Kiersztyn, Paweł Karczmarek, Zhadkovska Khrystyna, Witold Pedrycz

Dynamic Trust Scoring of Railway Sensor Information
Marcin Lenart, Andrzej Bielecki, Marie-Jeanne Lesot, Teodora Petrisor, Adrien Revault d'Allonnes

Linear Parameter-varying Two Rotor Aero-dynamical System Modelling with State-space Neural Network
Marcel Luzar, Józef Korbicz

Evolutionary Quick Artificial Bee Colony for Constrained Engineering Design Problems
Otavio Noura Teixeira, Mário Tasso Ribeiro Serra Neto, Demison Rolins de Souza Alves, Marco Antonio Florenzano Mollinetti, Fabio dos Santos Ferreira, Daniel Leal Souza, Rodrigo Lisbôa Pereira

Session 7: Various Problems of Artificial Intelligence (poster session)
Date/Time: 16:20-17:30, Tue., June 5, 2018
Room: Rysy

Patterns in Video Games Analysis. Application of Eye-Tracker and Electrodermal Activity (EDA) Sensor
Iwona Grabska-Gradzińska, Jan K. Argasiński

Improved Behavioral Analysis of Fuzzy Cognitive Map Models
Miklós F. Hatwagner, Gyula Vastag, Vesa A. Niskanen, László T. Kóczy

On Fuzzy Sheffer Stroke Operation
Piotr Helbin, Wanda Niemyska, Pedro Berruezo, Sebastia Massanet, Daniel Ruiz-Aguilera, Michal Baczynski

Building Knowledge Extraction from BIM/IFC Data for Analysis in Graph Databases
Ali Ismail, Barbara Strug , Grażyna Ślusarczyk

Multi-Agent Problem in a New Depiction
Krystian Jobczyk, Antoni Ligęza

Proposal of a smart gun system supporting police interventions
Radosław Klimek, Zuzanna Drwiła, Patrycja Dzienisik

Knowledge Representation in Model Driven Approach in terms of the Zachman Framework

Krzysztof Kluza, Piotr Wiśniewski, Antoni Ligęza, Anna Suchenia, Joanna Wyrobek

Rendezvous Consensus Algorithm Applied to the Location of Possible Victims in Disaster Zones
Jose Leon, Gustavo A. Cardona, Luis G. Jaimes, Juan M. Calderon, Pablo Ospina Rodriquez

Exploiting OSC Models by Using Neural Networks with an Innovative Pruning Algorithm
Grazia Lo Sciuto, Giacomo Capizzi, Christian Napoli, Raphael Shikler, Dawid Polap, Marcin Woźniak

Critical Analysis of Conversational Agent Technology for Intelligent Customer Support and Proposition of a New Solution
Mateusz Modrzejewski, Przemysław Rokita

Random Forests for Profiling Computer Network Users
Jakub Nowak, Marcin Korytkowski, Robert Nowicki, Rafał Scherer, Agnieszka Siwocha

Leader-follower formation for UAV robot swarm based on fuzzy logic theory
Wilson Quesada, Jonathan Rodriguez, Juan C. Murillo, Gustavo A. Cardona, David Yanguas-Rojas, Luis G. Jaimes, Juan M. Calder\'on

Towards Interpretability of the Movie Recommender Based on a Neuro-Fuzzy Approach
Tomasz Rutkowski, Jakub Romanowski, Piotr Woldan, Paweł Staszewski, Radosław Nielek

Dual-Heuristic Dynamic Programming in the three-wheeled mobile transport robot control
Marcin Szuster

Stylometry analysis of literary texts in Polish
Tomasz Walkowiak, Maciej Piasecki

Constraint-Based Identification of Complex Gateway Structures in Business Process Models
Piotr Wiśniewski, Antoni Ligęza

Developing a fuzzy knowledge base and filling it with knowledge extracted from various documents
Nadezhda Yarushkina, Vadim Moshkin, Aleksey Filippov, Gleb Guskov

18:30

Social event (Banquet), Room: Tatry

Wednesday, June 6

07:30-8:30

Breakfast, Room: Zakopane

Session 8: Bioinformatics, Biometrics and Medical Applications (poster session)
Date/Time: 8:40-9:50, Wed., June 6, 2018
Room: Rysy

The shape language application to evaluation of the vertebra syndesmophytes development progress.
Marzena Bielecka, Rafał Obuchowicz, Mariusz Korkosz

Analytical Realization of the EM Algorithm for Emission Positron Tomography
Robert Cierniak, Piotr Dobosz, Piotr Pluta, Piotr Filutowicz

An Application of Graphic Tools and Analytic Hierarchy Process to the Description of Biometric Features
Paweł Karczmarek, Adam Kiersztyn, Witold Pedrycz

On Some Aspects of an Aggregation Mechanism in Face Recognition Problems
Paweł Karczmarek, Adam Kiersztyn, Witold Pedrycz

Nuclei detection in cytological images using Convolutional Neural Network and ellipse fitting algorithm
Marek Kowal, Michał Żejmo, Józef Korbicz

Towards the Development of Sensor Platform for Processing Physiological Data From Wearable Sensors
Krzysztof Kutt, Wojciech Binek, Piotr Misiak, Grzegorz J. Nalepa, Szymon Bobek

Severity of Cellulite Classification Based on Tissue Thermal Imagining
Jacek Mazurkiewicz, Joanna Bauer, Michal Mosion, Agnieszka Migasiewicz, Halina Podbielska

Features selection for the most accurate SVM gender classifier based on geometrical features
Piotr Milczarski, Zofia Stawska, Shane Dowdall

Parallel Cache Efficient Algorithm and Implementation of Needleman-Wunsch Global Sequence Alignment
Marek Pałkowski, Krzysztof Siedlecki, Włodzimierz Bielecki

Using fuzzy numbers for modeling series of medical measurements in a diagnosis support based on the Dempster-Shafer theory
Sebastian Porebski, Ewa Straszecka

Averaged Hidden Markov Models in Kinect-Based Rehabilitation System
Aleksandra Postawka, Przemysław Śliwiński

Genome compression: an image-based approach
Kelvin Vieira Kredens, Juliano Vieira Martins, Osmar Betazzi Dordal, Edson Emilio Scalabrin, Roberto Hiroshi Herai, Bráulio Coelho Ávila

Stability of features describing the dynamic signature biometric attribute

Marcin Zalasiński, Krzysztof Cpałka, Konrad Grzanek

Session 9: Computer Vision, Image and Speech Analysis (poster session)
Date/Time: 10:00-11:10, Wed., June 6, 2018
Room: Rysy

Moving Object Detection and Tracking Based on Three-frame Difference and Background Subtraction with Laplace Filter
Beibei Cui, Jean-Charles Creput

Robust lane Extraction using Two-Dimension Declivity
Mohamed Fakhfakh, Nizar Fakhfakh, Lotfi Chaari

Segmentation of the Proximal Femur by the Analysis of X-ray Imaging using Statistical Models of Shape and Appearance
Joel Gallegos Guillén, Laura Estacio Cerquín, Javier Delgado Obando, Eveling Castro-Gutierrez

Architecture of Database Index for Content-Based Image Retrieval Systems
Rafał Grycuk, Patryk Najgebauer, Rafał Scherer, Agnieszka Siwocha

Symmetry of Hue Distribution in the Images
Piotr Milczarski

Image Completion with Smooth Nonnegative Matrix Factorization
Tomasz Sadowski, Rafał Zdunek

A Fuzzy SOM for Understanding of Uncomplete 3D Faces
Janusz Starczewski, Katarzyna Nieszporek, Michał Wróbel, Konrad Grzanek

Image Retrieval by use of Linguistic Description in Databases
Krzysztof Wiaderek, Danuta Rutkowska, Elisabeth Rakus-Andersson

Session 10: Data Mining (poster session)
Date/Time: 11:20 - 12:30, Wed., June 6, 2018
Room: Rysy

Text Categorization Improvement via User Interaction
Jakub Atroszko, Julian Szymanski, David Gil, Higinio Mora

Uncertain decision tree classifier for mobile context-aware computing
Szymon Bobek, Piotr Misiak

An efficient prototype selection algorithm based on dense spatial partitions
Joel Carbonera, Mara Abel

Complexity of Rule Sets Induced by Characteristic Sets and Generalized Maximal Consistent Blocks
Patrick G Clark, Cheng Gao, Jerzy W Grzymala-Busse, Teresa Mroczek, Rafał Niemiec

On Ensemble Components Selection in Data Streams Scenario with Gradual Concept-Drift
Piotr Duda

An empirical study of strategies boosts performance of Mutual Information similarity
Ole Kristian Ekseth, Svein-Olaf Hvasshovd

Distributed Nonnegative Matrix Factorization with HALS Algorithm on Apache Spark
Krzysztof Fonał, Rafał Zdunek

Application of Perspective-based Observational Tunnels Method to Visualization of Multidimensional Fractals
Dariusz Jamróz

Estimation of probability density function, differential entropy and other relative quantities for data streams with concept drift
Maciej Jaworski, Patryk Najgebauer, Piotr Goetzen

System for building and analyzing preference models based on social networking data and SAT solvers
Radosław Klimek

On asymmetric problems of objects' comparison
Maciej Krawczak, Grażyna Szkatuła

Recommendation Algorithm Based on User Trust and Interest with Probability Matrix Factorization
Chuanmin Mi, Peng Peng, Rafał Mierzwiak

Feature Extraction in Subject Classification of Text Documents in Polish
Tomasz Walkowiak, Szymon Datko, Henryk Maciejewski

Efficiency of Random Decision Forest Technique in Polish Companies' Bankruptcy Prediction
Joanna Wyrobek, Krzysztof Kluza

TUP-RS: Temporal User Profile based Recommender System
Wanling Zeng, Yang Du, Dingqian Zhang, Zhili Ye, Zhumei Dou

Feature Extraction of Surround Sound Recordings for Acoustic Scene Classification
Sławomir Zieliński

13:00 - 14:30

Lunch, Room: Zakopane

Sightseeing trip

18:00 – 19:30

Dinner, Room: Zakopane

Thursday, June 7

07:30-8:30

Breakfast, Room: Zakopane

Conference site

The ICAISC Conference is held in:

Mercure Kasprowy Hotel
ul. Szymaszkowa
34-500 Zakopane, POLAND
tel. (+48) 18 202 40 00

Useful phone numbers:

taxi in Zakopane: +48 18 196 25, Radio Taxi Giewont +48 18 196 26
                   Radio Taxi 919:   +48 18 20 12 560
                   INTER Radio Taxi: +48 18 201 42 32
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Ambulance: 999, Police: 997 (or 112 from your mobile phone)
Mountain Rescue Team TOPR : 985, (+48) 601 100 300 or (+48) 18 206 34 44
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