

Thursday 24.09.2009

16:00 Registration

18:00 Diner (for late arrivals served till 21:00)

Friday 25.09.2009

08:00 Breakfast

09:00 Registration (open till lunch)

09:30 Welcome session

09:45 In Memoriam Adam Mrózek

11:15 Coffee break

11:30 Keynote talks

Rough-Granular Computing in Human-Centric Information Processing

A. Jankowski, A. Skowron

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Stochastic Effects in Signaling Pathways in Cells: Interaction between Visualization and Modeling

M. Kimmel

p. 11

13:00 Lunch

14:30 Session A: Computational Techniques in Biosciences

5 papers

Analyze of MALDI-TOF Proteomic Spectra with Usage of Mixture of Gaussian Distributions

M. Plechawska, J. Polańska, A. Polański, M. Pietrowska, R. Tarnawski, P. Widlak, M. Stobiecki, Ł. Marczak

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Energy Properties of Protein Structures in the Analysis of the Human RAB5A Cellular Activity

D. Mrozek, B. Malysiak-Mrozek, S. Kozielski, S. Górczyńska-Kosiorz

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Bayes Multistage Classifier and Boosted C4.5 Algorithm in Acute Abdominal Pain Diagnosis

R. Burduk, M. Woźniak

p. 371

Estimation of the Number of Primordial Genes in a Compartment Model of RNA World

D. Myszor, K. A. Cyran

p. 151

Quasi Dominance Rough Set Approach in Testing for Traces of Natural Selection at Molecular Level

K. A. Cyran

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16:15 Coffee break

16:30 Session B: Rough-Fuzzy Investigations

5 papers

Classification Algorithms Based on Template's Decision Rules

B. Marszał-Paszek, P. Paszek, A. Wakulicz-Deja

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Data Grouping Process in Extended SQL Language Containing Fuzzy Elements

B. Malysiak-Mrozek, D. Mrozek, S. Kozielski

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Fuzzy Rough Entropy Clustering Algorithm Parametrization

D. Malyszko, J. Stepaniuk

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On Construction of Partial Association Rules with Weights

M. Ju. Moshkov, M. Piliszczuk, B. Zielosko

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Fuzzy Clustering and Gene Ontology Based Decision Rules for Identification and Description of Gene Groups

A. Gruca, M. Kozielski, M. Sikora

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18:00 Diner

19:30 In Memoriam Adam Mrózek - Polish session

Saturday 26.09.2009

08:00 Breakfast

09:00 Keynote talks

Open letter to the conference attendees (Lecture cancelled)

J. F. Peters

Speech Man-Machine Communication

R. Tadeusiewicz, G. Demenko

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10:30 Coffee break

10:45 Session C: Human-Computer Interactions

6 papers

A Psycholinguistic Model of Man-Machine Interactions Based on Needs of Human Personality

A. Horzyk, R. Tadeusiewicz

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Adaptable Graphical User Interfaces for Player-Based Applications

Ł. Wyciślik

p. 69

Case-Based Reasoning Model in Process of Emergency Management

J. Krupka, M. Kasparova, P. Jirava

p. 77

Enterprise Ontology According to Roman Ingarden Formal Ontology

J. Andreasik

p. 85

Hand Shape Recognition for Human-Computer Interaction

J. Marnik

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From Museum Exhibits to 3D Models

A. Tomaka, L. Luchowski, K. Skabek

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12:45 Lunch

14:15 Session D1: Computer Vision, Image Analysis and Virtual Reality

7 papers

Session D2: Databases and Data Warehousing

7 papers

Spatial Color Distribution Based Indexing and Retrieval Scheme

M. Łuszczkiewicz, B. Smolka

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Usage of the Universal Object Model in Database Schemas Comparison and Integration

M. Budny, K. Harężlak

p. 563

Synthesis of Static Medical Images with an Active Shape Model

Z. S. Hippe, J. W. Grzymala-Busse, Ł. Piątek

p. 429

Computational Model for Efficient Processing of Geofield Queries

P. Bajerski, S. Kozielski

p. 573

New Method for Personalization of Avatar Animation

P. Szczuko, B. Kostek, A. Czyżewski

p. 435

How to Efficiently Generate PNR Representation of a Qualitative Geofield

P. Bajerski

p. 595

Computing the Longest Common Transposition-Invariant Subsequence with GPU

S. Deorowicz

p. 551

Applying Advanced Methods of Query Selectivity Estimation in Oracle DBMS

D. R. Augustyn

p. 585

Shape Recognition Using Partitioned Iterated Function Systems

K. Gdawiec

p. 451

RBTAT: Red-Black Table Aggregate Tree

M. Gorawski, S. Bańkowski, M. Gorawski

p. 605

Computer Vision Support for the Orthodontic Diagnosis

A. Tomaka, A. Pisulska-Otremba

p. 459

Performing Range Aggregate Queries In Stream Data Warehouse

M. Gorawski, R. Malczok

p. 615

Multidimensional Labyrinth – Multidimensional Virtual Reality

D. Jamroz

p. 445

LVA-Index: an Efficient Way to Determine Nearest Neighbors

P. Lasek

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16:00 Coffee break

16:15 Session E1: Advances in Classification Methods

6 papers

Session E2: Advances in Algorithmics

7 papers

Decision Tree Induction Methods for Distributed Environment

K. Walkowiak, M. Woźniak

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A Method for Automatic Standardization of Text Attributes without Reference Data Sets

Ł. Cizak

p. 489

Fast Orthogonal Neural Network for Adaptive Fourier Amplitude Spectrum Computation in Classification Problems

B. Stasiak, M. Yatsymirskyy

p. 327

The Comparison of an Adapted Evolutionary Algorithm with the Invasive Weed Optimization Algorithm Based on the Problem of Predetermining the Progress of Distributed Data Merging Process

D. Kostrzewa, H. Josiński

p. 505

Privacy Preserving Classification for Ordered Attributes

P. Andruszkiewicz

p. 353

Internal Conflict-Free Projection Sets

Ł. Mikulski

p. 497

Incorporating Detractors into SVM Classification

M. Orchel

p. 361

Cumulation of Pheromone Values in Web Searching Algorithm

U. Boryczka, I. Polak

p. 515

Remark on Membership Functions in Neuro-Fuzzy Systems

K. Simiński

p. 291

On Two Variants of the Longest Increasing Subsequence Problem

S. Deorowicz, S. Grabowski

p. 541

Application of Discriminant Analysis to Distinction of Musical Instruments on the Basis of Selected Sound Parameters

A. Wieczorkowska, A. Kubik-Komar

p. 407

Mining for Unconnected Frequent Graphs with Direct Subgraph Isomorphism Tests

Ł. Skonieczny

p. 523

Numerical Evaluation of the Random Walk Search Algorithm

A. Biernacki

p. 533

18:00 Free time

20:00 Banquet with live music and folklore

Sunday 27.09.2009

08:00 Breakfast

09:00 Session F1: Rough and Fuzzy Support	6 papers	Session F2: Embedded Systems Applications	6 papers
Approximate String Matching by Fuzzy Automata <i>V. Snasel, A. Keprt, A. Abraham, A. E. Hassaniien</i>	p. 281	The VHDL Implementation of Reconfigurable MIPS Processor <i>A. Ziębiński, S. Świerc</i>	p. 663
Relative Reduct-Based Selection of Features for ANN Classifier <i>U. Stańczyk</i>	p. 335	Basic Component of Computational Intelligence for IRb-1400 Robots <i>T. Szkodny</i>	p. 637
Extensions of Multistage Decision Transition Systems: the Rough Set Perspective <i>K. Pancerz</i>	p. 209	Factors Having Influence upon Efficiency of an Integrated Wired-Wireless Network <i>B. Zieliński</i>	p. 647
Rough Sets in Flux: Crispings and Change <i>M. Wolski</i>	p. 257	Time Optimal Target Following by a Mobile Vehicle <i>K. Skrzypczyk</i>	p. 671
Simplification of Neuro-Fuzzy Models <i>K. Simiński</i>	p. 265	Improving Quality of Satellite Navigation Devices <i>K. Tokarz, M. Dzik</i>	p. 679
Fuzzy Weighted Averaging of Biomedical Signal Using Bayesian Inference <i>A. Momot</i>	p. 133	FFT Based EMG Signals Analysis on FPGAs for Dexterous Hand Prosthesis Control <i>J. Góra, P. M. Szczówka, A. R. Wolczowski</i>	p. 655

10:30 Coffee break

10:45 Session G1: Pattern Recognition and Signal Processing	5 papers	Session G2: Decision Rule Inference and Representation	4 papers
Skrybot – A System for Automatic Speech Recognition of Polish Language <i>L. Pawlaczyk, P. Bosky</i>	p. 381	System for Knowledge Mining in Data from Interactions between User and Application <i>I. Bluemke, A. Orlewicz</i>	p. 103
Fuzzy Weighted Averaging Using Criterion Function Minimization <i>A. Momot, M. Momot</i>	p. 273	The Way of Rules Representation in Composited Knowledge Bases <i>A. Nowak, A. Wakulicz-Deja</i>	p. 175
Speaker Verification Based on Fuzzy Classifier <i>A. Dustor</i>	p. 389	Clustering of Partial Decision Rules <i>A. Nowak, B. Zielosko</i>	p. 183
Support Vector Classifier with Linguistic Interpretation of the Kernel Matrix in Speaker Verification <i>M. Bąk</i>	p. 399	Decision Trees Constructing over Multiple Data Streams <i>J. Martyna</i>	p. 191
Enhanced Ontology Based Profile Comparison Mechanism for Better Recommendation <i>R. P. Bora, C. Bhandari, A. Mehta</i>	p. 445		

12:00 Farewell session

13:00 Lunch