



Conference Program

Monday - 25.05.2009

12.00 – 14.00 Registration

14.00 - 14.15 Opening Ceremony

14.15 – 15.00 PLENARY PAPER:

Prof. Juliusz Lech Kulikowski
Pattern Recognition Driven by Domain Ontologies

15.15 - 15.30 Coffee break

15.30 - 17.15 ORAL SESSION

Augmenting Mobile Robot Geometric Map with Photometric Information
Piotr Skrzypczyński

Patchwork Neuro-fuzzy System with Hierarchical Domain Partition
Krzysztof Simiński

Vehicles Recognition Using Fuzzy Descriptors of Image Segments
Bartłomiej Placzek

Cluster Analysis in Application to Quantitative Inspection of 3D Vascular Tree Images
Artur Klepaczko, Marek Kocinski, Andrzej Materka

The Comparison of Normal Bayes and SVM Classifiers in the Context of Face Shape Recognition
Adam Schmidt

Line Detection Methods for Spectrogram Images
Thomas A. Lampert, Simon E.M. O'Keefe, Nick E. Pears

17.15-18.15 POSTER SESSION 1

Fusion of External Context and Patterns – Learning from Video Streams
Mariusz Dzieńkowski, Wiesława Kuniszyk-Jóźkowiak, Elżbieta Smółka, Waldemar Suszyński

Low-Cost Adaptive Edge-Based Single-Frame Superresolution
Zbigniew Świerczyński, Przemysław Rokita

Eye and Nostril Localization for Automatic Calibration of Facial Action Recognition System
Jaromir Przybyło

Grade Differentiation Measure of Images
Maria Grzegorek

3D Mesh Approximation Using Vector Quantization
Michał Romaszewski, Przemysław Glomb

Detection of Interest Points on 3D Data: Extending the Harris Operator
Przemysław Glomb

Morphological Analysis of Binary Scene in APR Integrated Environment
Marek Krótkiewicz, Krystian Wojtkiewicz

Direct Filtering and Enhancement of Biomedical Images Based on Morphological Spectra
Juliusz L. Kulikowski, Małgorzata Przytułska, Diana Wierzbicka

Electronic Records with Cardiovascular Monitoring System
Angelmar Constantino Roman, Hugo Bulegon, Silvio Bortoleto, Nelson Ebecken

Diagnostically Useful Video Content Extraction for Integrated Computer-Aided Bronchoscopy Examination System
Rafał Jóźwiak, Artur Przelaskowski, Mariusz Duplaga

Tuesday - 26.05.2009

7.30 - 8.30 Breakfast

8.30-10.15 ORAL SESSION 2

A New Feature Extraction Method Based on the Partial Least Squares Algorithm and Its Applications

Pawel Blaszczyk, Katarzyna Stapor

Enhanced Density Based Algorithm for Clustering Large Datasets

Yasser El-Sonbaty, Hany Said

New Variants of the SDF Classifier

Maciej Smiatacz, Witold Malina

A New Notion of Weakness in Classification Theory

Igor T. Podolak, Adam Roman

Time Series Prediction Using New Adaptive Kernel Estimators

Marcin Michalak

Dominance-Based Rough Set Approach Employed in Search of Authorial Invariants

Urszula Stańczyk

10.15-11.00 PLENARY PAPER

Prof. Zdzisław S.Hippe

From research on the computer-assisted diagnosing of skin lesions,

11.00-11.15 Coffee break

11.15-12.00 PLENARY PAPER

Prof. Ewaryst Rafajłowicz

Fusion of External Context and Patterns – Learning from Video Streams .

12.00-13.15 ORAL SESSION 3

Multistrategic Classification System of Melanocytic Skin Lesions: Architecture and First Results

Pawel Cudek, Jerzy W. Grzymała-Busse, Zdzisław S. Hippe

Strategies of Software Adaptation in Home Care Systems

Piotr Augustyniak

Database Supported Fine Needle Biopsy Material Diagnosis Routine

Maciej Hrebien, Józef Korbicz

Analysis of Changes in Heart Ventricle Shape Using Contextual Potential Active Contours

Arkadiusz Tomczyk, Cyprian Wolski, Piotr S. Szczepaniak, Arkadiusz Rotkiewicz

Tumor Extraction From Multimodal MRI

Moualhi Wafa, Ezzeddine Zagrouba

The Preliminary Study of the EGG and HR Examinations

Dariusz Komorowski, Stanislaw Pietraszek

13.15-14.00 POSTER SESSION 2

Data Noise Reduction in Neuro-fuzzy Systems .

Krzysztof Simiński

A Novel Ensemble of Scale-Invariant Feature Maps

Bruno Baruaque, Emilio Corchado

The Sequential Reduction Algorithm for Nearest Neighbor Rule Based on Double Sorting

Marcin Raniszewski

Recognition of Solid Objects in Images Invariant to Conformal Transformations

Boguslaw Cyganek

The Adaptive Fuzzy Meridian and Its Application to Fuzzy Clustering

Tomasz Przybyla, Janusz Jezewski, Krzysztof Horoba

Comparison of Various Feature Selection Methods in Application to Prototype Best Rules

Marcin Blachnik

Electrostatic Field Classifier for Deficient Data

Marcin Budka, Bogdan Gabrys

Artificial Neural Networks in the Disabled Speech Analysis

Izabela Świłlicka, Wiesława Kuniszyk-Józkowiak, Elżbieta Smolka

Using Hierarchical Temporal Memory for Recognition of Signed Polish Words

Tomasz Kapuscinski, Marian Wysocki

Reliable Airway Tree Segmentation Based on Hole Closing in Bronchial Walls

Michał Postolski, Marcin Janaszewski, Anna Fabijańska, Laurent Babout, Michel Couprie, Mariusz J. edrzejczyk, Ludomir Stefańczyk

Analysis of Variability of Isopotential Areas Features in Sequences of EEG Maps

Hanna Goszczynska, Leszek Kowalczyk, Marek Doros, Krystyna Kolebska, Adam Jóźwik, Stanislaw Dec, Ewa Zalewska, Jan Miszczak

Combined T1 and T2 MR Brain Segmentation

Rafał Henryk Kartaszyński, Paweł Mikołajczak

14.00-15.00 Dinner

15.00-17.15 ORAL SESSION 4

Cost-Efficient Cross-Lingual Adaptation of a Speech Recognition System

Zoraida Callejas, Jan Nouza, Petr Cerva, Ramón López-Cózar

Pseudo Multi Parallel Branch HMM for Speaker Verification

Donato Impedovo, Mario Refice

An Adaptive Spell Checker Based on PS3M: Improving the Clusters of Replacement Words

Renato Cordeiro de Amorim

Visual Design Aided by Specialized Agents

Ewa Grabska, Grażyna Ślusarczyk

Recognizing Anomalies/Intrusions in Heterogeneous Networks

Michał Choraś, Łukasz Saganowski, Rafał Renk, Rafał Kozik, Witold Hołubowicz

Vehicle Detection Algorithm for FPGA Based Implementation

Wiesław Pamuła

Digital Analysis of 2D Code Images Based on Radon Transform

Rafał Tartowski, Michał Choraś

17.15-17.30 coffee break

17.30-18.30 POSTER SESSION 3

Hierarchic Approach in the Analysis of Tomographic Eye Image

Robert Koprowski, Zygmunt Wrobel

Layers Recognition in Tomographic Eye Image Based on Random Contour Analysis

Robert Koprowski, Zygmunt Wrobel

Recognition of Neoplastic Changes in Digital Images of Exfoliated Nuclei of Urinary Bladder – A New Approach to Classification Method

Annamoni Dulewicz, Adam Józwiak, Paweł Jaszczak, Bogusław D. Piętko

Dynamic Contour Detection of Heart Chambers in Ultrasound Images for Cardiac Diagnostics .

Paweł Hoser

Iris Recognition

Ryszard S. Choraś

A Soft Computing System for Modelling the Manufacture of Steel Components

Andres Bustillo, Javier Sedano, Leticia Curiel, Jose R. Villar, Emilio Corchado

Head Rotation Estimation Algorithm for Hand-Free Computer Interaction

Rafał Kozik

Detection of the Area Covered by Neural Stem Cells in Cultures Using Textural Segmentation and Morphological Watershed

Marcin Iwanowski, Anna Korzyńska

Decision Support System for Assessment of Enterprise Competence

Jan Andreasik

The Polish Coins Denomination Counting by Using Oriented Circular Hough Transform

Piotr Porwik, Krzysztof Wrobel, Rafał Doroz

New Edge Detection Algorithm in Color Image Using Perception Function

Wojciech S. Mokrzycki, Marek A. Samko

19.30- ? Bonfire

Wednesday - 27.05.2009

7.30 - 9.00 Breakfast

9.30-10.15 PLENARY PAPER

Prof. John Oommen

A Novel Self Organizing Map Which Utilizes Imposed Tree-Based Topologies

11.00 Sightseeing tour

18.30 Banquet

Thursday- 28.05.2009

7.30 - 9.00 Breakfast

9.15-11.00 ORAL SESSION 5

Capillary Blood Vessel Tracking Using Polar Coordinates Based Model Identification
Mariusz Paradowski, Halina Kwasnicka, Krzysztof Borysewicz

A Comparison Framework for Spectrogram Track Detection Algorithms
Thomas A. Lampert, Simon E.M. O'Keefe

Stroke Slicer for CT-Based Automatic Detection of Acute Ischemia
Artur Przelaskowski, Grzegorz Ostrek, Katarzyna Sklinda, Jerzy Walecki, Rafał Józwiak

Dynamic Surface Reconstruction Method from Unorganized Point Cloud
Karolina Nurzyńska

11.00-11.15 Coffee break

11.15-11.30 Closing Ceremony

12.30-13.30 Dinner