

Conference Program

CISIM 2010

9th International Conference on Computer Information Systems and Industrial Management Applications

October 8-10, 2010 Cracow

Day 1 – Friday, 08.10.2010

All keynotes and oral sessions in Faculty of Physics and Applied Computer Science (D-10, 19 Reymonta St.) Hall-A on 2nd Floor

16.00 19.00

Registration

17.45 **Opening** (Vice-Rector Z. Kąkol, Conf. Chair K. Saeed)

18.00 19.30 **Keynotes**

Chairman – Krzysztof Kułakowski, Ajith Abraham

- *Anomaly, Novelty, One-Class Classification: A Short Introduction*
Anna Bartkowiak
- *Human activity recognition in industrial applications*
Paul Lukowicz

20.00 24.00 **Welcome Dinner**

Krakus Restaurant – 15 Reymonta St.

Day 2 – Saturday, 09.10.2010

All keynotes and oral sessions in Faculty of Physics and Applied Computer Science (D-10, 19 Reymonta St.) Hall-A on 2nd Floor

8.30 15.00

Registration

9.00 10.30 **Keynotes**

Chairman – Vaclav Snasel, Khalid Saeed

- *Computers in Psychology and Psychology in Computer Science*
Ryszard Tadeusiewicz
- *Pervasive Computing: What Next?*
Alois Ferscha

10.30 10.50

Coffee Break

10.50 12.20 **Keynotes**

Chairman – Ajith Abraham, Vashek Matyáš

- *Intrusion Detection: Ad-hoc Networks to Ambient Intelligence Framework*
Rituparna Chaki
- *Integration of different computational models in a computer vision framework*
Włodzimierz Kasprzak

12.20 14.00 **Oral session (Biometrics and Kansei Engineering)**

Chairman – Włodzimierz Kasprzak, Hironobu Kamimura

- *Recognition of Spoken Bengali Numerals*
Kumar Ghanty, Soharab Hossain Shaikh and Nabendu Chaki
- *Audio classification based on a closed item set mining algorithm*
Yoshifumi Okada, Takahiro Tada, Kentarou Fukuta and Tomomasa Nagashima
- *The performance and physical responses during an attention shift task with grapefruit and skatole odor presentation*
Hiroshi Yamada, Noriaki Kaneki, Hironobu Kamimura and Takayuki Koike
- *The Graphical Modeling of the Physiological and Psychological Effects of Odors on the Human Body during a footbath*
Hironobu Kamimura, Noriaki Kaneki, Takayuki Koike and Hiroshi Yamada
- *Media Biotope: Media designing analogous with Biotope*
Hidetsugu Suto
- *The pleasant odor reduces the brain activity and enhances behavioral performance during kanji word-color stroop task: A multi-fiber NIRS st*
Takayuki Koike, Hiroshi Yamada, Noriaki Kaneki and Hironobu Kamimura
- *An Efficient Method for Relating Various Human Impressions to Physical Features*
Sawai Masahiro, Okada Yoshifumi and Nagashima Tomomasa

14.00 15.00

Lunch

15.00 16.30 **Keynotes**

Chairman – Vaclav Snasel, Khalid Saeed

- *The World as a System of Sub-Systems - Information Management in Heterogeneous Environments*
Fanny Klett
- *Security of Biometric Authentication Systems*
Vashek Matyáš

16.30 17.15 **Poster session**

Chairman – Jiri Dvorsky, Pavel Moravec

- *A New Approach for Mutation Analysis Using Data Mining Techniques*
Huseyin Kaya and Sule Gunduz Oguducu
- *The Detection of Shifts in Autocorrelated Processes with MR and EWMA Charts*
Karin Kandananond
- *Evaluating the Statistical Process Control Performance for Monitoring Stationary Observations using Monte Carlo Simulation*
Karin Kandananond
- *Generation of linear maximum length sequences*
Zenon Syroka, Tomasz Zajac and Pawel Dubilowicz
- *Simulating Interaction with Wireless Sensor Networks*
Adam Brennan, Michael O'Grady and Gregory O'Hare
- *The recurrence plot as a tool in the analysis of network traffic anomaly detection*
Aida Saeed and Romuald Mosdorf

- *Prion Neural System: Modeling the binding affinities between neurons of a network*
Luciana Morogan
- *LAR2P: A Location Aided Reactive Routing Protocol for Near-Optimal Route Discovery in MANET*
Nabendu Chaki
- *Quasigroups with Good Statistical Properties*
Jiri Dvorsky, Eliska Ochodkova and Vaclav Snasel
- *XML Compression Improvements Based on the Clustering of Elements*
Pavel Hruška, Jan Martinovic, Jiri Dvorsky and Vaclav Snasel
- *Preprocessing Methods for SVD-based Iris Recognition*
Petr Gajdos, Pavel Moravec and Vaclav Snasel

17.15 17.45

Coffee Break

17.45 19.30 **Oral Session (Artificial Intelligence and Ambient Intelligence)**

Chairman – Fanny Klett, Nabendu Chaki

- *Simple system for determining starting position of cable-driven manipulator*
Janusz Baczynski and Michal Baczynski
- *Safe and Flexible Human-Robot Cooperation in Industrial Applications*
Juan José Bosch and Fanny Klett
- *Constructing Causal Networks for Facial Packs*
Junichiro Wakatsuki, Takaaki Saito, Ali Abrishamian, Makiba Sakamoto and Takashi Uozumi
- *Exact and Metaheuristic Approaches for Optimizing the Operations of Chip Mounter Machines*
Ekrem Duman, Ali Fuat Alkaya and Hüseyin Demirkale
- *Stock Market Value Prediction Using Neural Networks*
Mahdi Pakdaman Naeini, Hamidrezad Taremian and Homa Baradaran Hashemi
- *Probabilistic spreading of information in a spatial network*
Krzysztof Malarz, Vikas Chandra, Eve Mitleton-Kelly and Krzysztof Kułakowski
- *Band width of rectangular microstrip patch antenna with the use of clonal selection algorithm*
Dipak Kr. Neog and Reeta Devi

19.45

Free time

Day 3 – Sunday, 10.10.2010

All keynotes and oral sessions in Faculty of Physics and Applied Computer Science (D-10, 19 Reymonta St.) Hall-A on 2nd Floor

9.00 12.30

Registration

9.00 10.30 **Keynotes**

Chairman – Michał Woźniak, Rituparna Chaki

- *Construction of monitoring agent systems for an era of ubiquitous medical engineering*
T. Uozumi
- *The modern techniques of latent fingerprint imaging*
Piotr Porwik

10.30 10.50

Coffee Break

10.50 12.00 **Oral Session (Data Mining)**

Chairman – Eliska Ochodkova, Ekrem Duman

- *Object Relational Implementation of Graph Based Conceptual Level Multidimensional Data Model*
Anirban Sarkar, Sankhayan Choudhury, Nabendu Chaki and Swapan Bhattacharya
- *Gene analysis Framework for a Biomarker Mining*
Kentaro Fukuta, Tomomasa Nagashima, Takashi Uozumi and Yoshifumi Okada
- *Modeling and Comparing Energy Consumption in Basic Metal Industries by Neural Networks and ARIMA*
Mohammad Jeihoonian, Ghaderi and Mehdi Piltan
- *Implementation and Comparison of Machine Learning Classifiers for Information Security Risk Analysis of a Human Resources Department*
Mete Eminagaoglu and Saban Eren
- *Comparing performances of logistic regression, decision trees, and neural networks for classifying heart disease patients*
Anchana Khemphila and Veera Boonjing

12.00 13:00

Lunch >>>> Certificate of attendance – 1 <<<<

13.00 14.30 **Keynotes**

Chairman – Takashi Uozumi, Vaclav Snasel

- *Chosen Problems of Designing Effective Multiple Classifier Systems*
Michał Woźniak
- *Supercomputing at 1/10th of the cost*
Michal Harasiumiuk

14.30 16:00 **Oral Session (Web Intelligence, Computer & Network Security, Communication Networks, Production / Operation Management)**

Chairman – Seiji Sugiyama, Radha Thangaraj

- *MinEDec: a decision support model that combines text mining with competitive intelligence*
Yue Dai, Tuomo Kakkonen and Erkki Sutinen
- *A Basic Concept of Displaying Electronic Text with Seamless Pages: Wheel Action for Reeling Paragraphs (WaRP) in the MaSSTExt*
Seiji Sugiyama, Atsushi Ikuta and Miyuki Shibata
- *Protecting Corporate ICT Infrastructures by using Digital Forensics*
Syed Naqvi, Gautier Dallons and Christophe Ponsard
- *The traffic flow through different form of intersections*
Tomasz M. Gwizdała and Sebastian Grzebielucha
- *Towards a Generic Framework for the Evaluation of Knowledge-Based Infrastructures*
Juan José Bosch and Fanny Klett
- *An Event Oriented Data Management Method for Displaying Genealogy: Widespread Hands to InTErconnect BASic Elements (WHiteBasE)*
Seiji Sugiyama, Atsushi Ikuta, Miyuki Shibata and Tohru Matsuura
- *Optimal Design of Induction Motor for a Spinning Machine Using Population Based Metaheuristics*
Radha Thangaraj, Thangaraj Chelliah, Pascal Bouvry, Millie Pant and Ajith Abraham

16.00

Coffee Break >>>> Certificate of Attendance – 2 <<<<