

9th Industrial Conference on Data Mining ICDM'2009

Program

First Conference Day: July 20, 2009

- 08.50 **Welcome**
Petra Pernert
- 09.00 **Invited Talk**
Distances in Classification
Claus Weihs, Gero Szepannek
- 09.45 Break

Data Mining in Medicine and Agriculture

Session Chair: Dimitrios A. Karras

- 10.00 **Electronic nose ovarian carcinoma diagnosis based on machine learning algorithms**
José Chilo, György Horvath , Thomas Lindblad, Roland Olsson
- 10.30 **Data Mining of Agricultural Yield Data: A Comparison of Regression Models**
Georg Ruß
- 11.00 **Study of Principal Components on Classification of Problematic Wine Fermentations**
Alejandra Urtubia U., J. Ricardo Pérez-Correa
- 11.30 **A Data Mining Method for Finding Hidden Relationship in Blood and Urine Examination Items for Health Check**
Kazuhiko Shinozawa, Norihiro Hagita, Michiko Furutani, Rumiko Matsuoka
- 12.00 Lunch
- 13.30 **Application of Classification Association Rule Mining for Mammalian Mesenchymal Stem Cell Differentiation**
Weiqi Wang, Yanbo J. Wang, René Bañares-Alcántara, Zhanfeng Cui, Frans Coenen
- 14.00 **Computer-Aided Diagnosis in Brain Computed Tomography Screening**
Hugo Peixoto, Victor Alves
- 14.30 **Knowledge representation in difficult medical diagnosis**
Ana Aguilera, Alberto Subero
- 15.00 Break

Data Mining in Marketing, Finance and Telecommunication

Session Chair: Antonio Dourado

- 15.30 **Forecasting Product Life Cycle Phase Transition Points with Modular Neural Networks Based System**
Serge Parshutin, Ludmila Aleksejeva, Arkady Borisov
- 16.00 **Visualizing the Competitive Structure of Online Auctions**
Stephen France, Douglas Carroll
- 16.30 **Credit Risk Handling in Telecommunication Sector**
Monika Szczerba, Andrzej Ciemski

- 17.00 **Sales Intelligence Using Web Mining**
Viara Popova, Robert John, David Stockton
- 17.30 **A Sales Forecast Model for the German Automobile Market based on Time Series Analysis and Data Mining Methods**
Bernhard Brühl, Marco Hülsmann, Detlef Borscheid, Christoph M. Friedrich, Dirk Reith
- 18.00 **Responsible Data Releases**
Sanguthevar Rajasekaran, Ofer Harel, Michael Zuba, Greg Matthews, Robert Aseltine

Second Conference Day: July 21, 2009

- 09.00 **Invited Talk**
Predictive Targeting: Buzzword or Reality
The potential of automatic behavioral targeted advertising in Online Marketing.
Andrea Ahlemeyer-Stubbe

Data Mining in Process Control, Industry and Society

Session-Chair: Jonas Poelmans

- 10.00 **Combining multidimensional scaling and computational intelligence for industrial monitoring**
António Dourado, Sara Silva, Lara Aires, João Araújo
- 10.30 **Screening Paper Runnability in a Web-Offset Pressroom by Data Mining**
A. Alzghoul, A. Verikas, M. Hållander, M. Bacauskiene, A. Gelzinis
- 11.00 Break
- 10.30 **Evaluation of Distraction in a Driver-Vehicle-Environment Framework: an application of different Data-mining techniques**
Fabio Tango, Marco Botta
- 12.00 **SO MAD: SensOr Mining for Anomaly Detection in railway data**
Julien Rabatel, Sandra Bringay, Pascal Poncelet
- 12.30 **Online Mass Flow Prediction in CFB Boilers**
Andriy Ivannikov, Mykola Pechenizkiy, Jorn Bakker, Timo Lein, Mikko Jegoroff, Tommi Kärkkäinen, Sami Äyrämö
- 13.00 Lunch
- 14.00 **Poster Session & Industry Paper Presentation**
Opening of Industrial Exhibition

Session Chair: Claus Weihs

- 15.00 **Integrating Data Mining and Agent Based Modeling and Simulation**
Omar Baqueiro, Yanbo J. Wang, Peter McBurney, Frans Coenen
- 15.30 **A case of using Formal Concept Analysis in combination with Emergent Self Organizing Maps for detecting domestic violence**
Jonas Poelmans, Paul Elzinga, Stijn Viaene, Guido Dedene

Data Mining on Multimedia Data

Session Chair: Andrea Ahlemeyer-Stubbe

- 16.00 **Ordinal Evaluation: A New Perspective on Country Images**
Marko Robnik-Šikonja, Kris Brijs, Koen Vanhoof
- 16.30 Break
- 17.00 **Evaluation of Fusion for Similarity Searching in Online Handwritten Documents**
Sascha Schimke, Maik Schott, Claus Vielhauer, Jana Dittmann
- 17.30 **Self-Training Strategies for Handwriting Word Recognition**
Volkmar Frinken, Horst Bunke
- 18.00 **On a New Similarity Analysis in Frequency Domain for Mining Faces within a Complex Background**
Dimitrios A. Karras
- 19.00 Banquet

Third Conference Day: July 22, 2009

Theoretical Aspects of Data Mining

Session-Chair: Brent Gordon

- 09.00 **On the Integration of Neural Classifiers through Similarity Analysis of Higher Order Features**
Dimitrios A. Karras, Vasileios G. Mertzios
- 09.30 **Clustering with Domain Value Dissimilarity for Categorical Data**
Jeonghoon Lee, Yoon-Joon Lee, Minh Park
- 10.00 **The Normalized Compression Distance as a Distance Measure in Entity Identification**
Sebastian Klenk, Dennis Thom, Gunther Heidemann
- 10.30 Break
- 11.00 **Attribute Constrained Rules for Partially Labeled Sequence Completion**
Chad A. Williams, Peter C. Nelson, Abolfazl (Kouros) Mohammadian
- 11.30 **Mining Determining Sets for Partially Defined Functions**
Dan A. Simovici, Dan Pletea, and Rosanne Vetro
- 12.00 **On Cellular Network Channels Data Mining and Decision Making through Ant Colony Optimization and Multi Agent Systems Strategies**
P.M.Papazoglou, D.A.Karras, R.C.Papademetriou
- 12.30 **Discussion and Best Paper Award**
- 13.00 Lunch
- 14.30 **Workshops**
Data Mining in Marketing DMM 2009
Case-Based Reasoning on Multimedia Data CBR-MD 2009
Data Mining in Life Science DMLS 2009
- 18.30 **End of Conference Farewell**