

# 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**