

**World Congress DSA 2011**  
**The Frontiers in Intelligent Data and Signal Analysis**

**11<sup>th</sup> Industrial Conference on Data Mining ICDM'2011**

**6<sup>th</sup> International Conference on Mass Data Analysis of Images and Signals  
in Medicine, Biotechnology, Chemistry and Food Industry, MDA 2011**

**7<sup>th</sup> International Conference on Machine Learning  
and Data Mining, MLDM 2011**

**Program**

<b>Saturday August 27, 2011</b>	
09.00 am	<b>Tutorial</b> Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
10.30 am	Coffee Break
11.00 am	<b>Tutorial</b> Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
00.30 pm	<b>Lunch</b>
01.30 pm	<b>Tutorial</b> Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
03.00 pm	Coffee Break
03.30 pm	<b>Tutorial</b> Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
05.00 pm	<b>End of Tutorial</b>

<b>Saturday August 27, 2011</b>	
09.00 am	<b>Tutorial</b> Standardization in Immunofluorescence
10.30 am	Coffee Break
11.00 am	<b>Tutorial</b> Standardization in Immunofluorescence
00.30 pm	<b>Lunch</b>
01.30 pm	<b>Tutorial</b> Standardization in Immunofluorescence
03.00 pm	Coffee Break
03.30 pm	<b>Tutorial</b> Standardization in Immunofluorescence
05.00 pm	<b>End of Tutorial</b>

**Sunday August 28, 2011**

09.00 am –	<b>Tutorial</b> Case-Based Reasoning Tutorial
10.30 am	<b>Coffee Break</b>
11.00 am	<b>Tutorial</b> Case-Based Reasoning Tutorial
00.30 pm	<b>Lunch</b>
01.30 pm	<b>Tutorial</b> Case-Based Reasoning Tutorial
03.00 pm	<b>Coffee Break</b>
03.30 pm	<b>Tutorial</b> Case-Based Reasoning Tutorial
05.00 pm	<b>End of Tutorial</b>

**Monday August 29, 2011**

09.00 am	<b>Tutorial</b> Data Mining Tutorial
10.30 am	<b>Coffee Break</b>
11.00 am	<b>Tutorial</b> Data Mining Tutorial
00.30 pm	<b>Lunch</b>
01.30 pm	<b>Tutorial</b> Data Mining Tutorial
03.00 pm	<b>Coffee Break</b>
03.30 pm	<b>Tutorial</b> Data Mining Tutorial
05.00 pm	<b>End of Tutorial</b>

**Monday August 29, 2011**

06.00 pm –  
08.00 pm

**Registration & Reception**

**Nominated for Best Paper Award MLDM**

Estimating Image Segmentation Difficulty

*Dingding Liu, Yingen Xiong, Kari Pulli and Linda Shapiro*

Hubness-Based Fuzzy Measures for High-Dimensional k-Nearest Neighbor Classification

*Nenad Tomašev, Miloš Radovanović, Dunja Mladenić, and Mirjana Ivanović*

Spherical Nearest Neighbor Classification: Application to Hyperspectral Data

*Dalton Lunga and Okan Ersoy*

**Nominated for Best Paper Award ICDM**

Fast Data Acquisition in Cost-Sensitive Learning

*Victor S. Sheng*

Towards a Spatial Instance Learning Method for Deep Web Pages

*Ermelinda Oro and Massimo Ruffolo*

Characterizing Cell Types through Differentially Expressed Gene Clusters Using a Model-based Approach

*Juliane Perner and Elena Zotenko*

**Nominated for Best Paper Award MDA**

A Web Infrastructure for Emphysema Diagnosis and Follow-up through Computed Tomography Image Analysis.

*Massimo Chimenti, Enrico Fantini, Massimo Miniati, Simonetta Monti, and Marco Tampucci*

Supervised Machine Learning Methods for Quantification of Pulmonary Fibrosis

*Manuel Stritt, Roman Bär, Joël Freyss, Julia Marrie, Enrico Vezzali, Edgar Weber, and Anna Stalder*

<b>First Conference Day: August 30, 2011</b>	
Session Chair: Petra Perner	
09.00 am	<b>Welcome to DSA (MLDM, ICDM, MDA)</b> Petra Perner
09.15 am	<b>Invited Talk</b> <b>Interaction Detection With TreeNet Boosted Tree Ensembles</b> <i>Dan Steinberg</i>
10.00 am	Coffee Break
<b>Time Series and Frequent Item Set Mining (MLDM)</b>	
Session Chair: Dirk Krechel	
10.15 am	Unsupervised Discovery of Motifs Under Amplitude Scaling and Shifting in Time Series Databases <i>Tom Armstrong and Eric Drowniak</i>
10.45am	Static Load Balancing of Parallel Mining of Frequent Itemsets Using Reservoir Sampling <i>Robert Kessl</i>
11.15 am	GA-TVRC: A Novel Relational Time Varying Classifier to Extract Temporal Information Using Genetic Algorithms <i>İsmail Güneş, Zehra Çataltepe, and Şule Gündüz Öğüdücü</i>
11.45 am	Break
<b>Classification and Decision Theory (MLDM)</b>	
Session Chair: Victor S. Sheng	
12.00	Quadratically Constrained Maximum a Posteriori Estimation for Binary Classifier <i>Tatsuya Yokota and Yukihiro Yamashita</i>
00.30 pm	Hubness-Based Fuzzy Measures for High-Dimensional k-Nearest Neighbor Classification <i>Nenad Tomašev, Miloš Radovanović, Dunja Mladenić, and Mirjana Ivanović</i>
<b>WebMining/Information Mining (MLDM)</b>	
Session Chair: Victor S. Sheng	
01.00 pm	Recognizing Noun Phrase Patterns by a Graphical Model <i>Minhua Huang and Robert M. Haralick</i>
01.30 pm	Lunch
<b>Data Mining for Industrial Processes (ICDM)</b>	
Session Chair: Orlando Belo	
02.30 pm	Robust, Non-Redundant Feature Selection for Yield Analysis in Semiconductor manufacturing <i>Eric St. Pierre and Eugene Tuv</i>
03.00 pm	Integrated Use of ICA and ANN to Recognize the Mixture Control Chart Patterns in a Process <i>Yuehjen E. Shao, Yini Lin, and Ya-Chi Chan</i>
03.30 pm	Optimized Fuzzy Decision Tree Data Mining for Engineering Applications <i>Liam Evans and Niels Lohse</i>
04.00 pm	Coffee Break
<b>Multimedia Data Mining (ICDM)</b>	
Session Chair: Geert Gins	
04.15 pm	Unsupervised Classification of Hyperspectral Images on Spherical Manifolds <i>Dalton Lunga and Okan Ersoy</i>
04.45 pm	Recognition of Porosity in Wood Microscopic Anatomical Images <i>Shen Pan and Mineichi Kudo</i>
<b>Data Mining in Telecommunications (ICDM)</b>	
Session Chair: Geert Gins	
05.15 pm	Applying User Signatures on Fraud Detection in Telecommunications <i>João Lopes, Orlando Belo, and Carlos Vieira</i>
06.00 pm- 07.00 pm	<b>Poster Session MLDM &amp; Opening of Industrial Exhibition</b> Session Chair: Petra Perner

**Second Conference Day: August 31, 2011**

**Room 1**

**Spectroscopy (MDA)**

Session Chair: Petra Perner

09.00 am	A Unified Framework for Peak Detection and Alignment: Application to HR-MAS 2D NMR Spectroscopy <i>Akram Belghith, Christophe Collet, and Jean-Paul Armspach</i>
9.30 am	Interpretation of (RAMAN) Spectrometer-Signals Based on Delta Modulation and Similarity-Based Classification - Label-Free Screening of Bio-Molecular Interactions Based on Raman Spectroscopy <i>Petra Perner, Anja Attig, and Oleg Machno</i>
10.00 am	Coffee Break

**Heart and Cardial Diagnosis (MDA)**

Session Chair: Marco Tampucci

10.15 am	Computational Methods for Pericardial Fat Evaluation <i>Giuseppe Coppini, Riccardo Favilla, Paolo Marraccini, Davide Moroni, Gabriele Pieri, and Ovidio Salvetti</i>
10.45 am	A Novel Analysis Method to Characterize Heartbeat Dynamics through the Microcanonical Multiscale Formalism <i>Oriol Pont, Michel Haïssaguerre, Hussein Yahia, Nicolas Derval, and Mélèze Hocini</i>

**Medical Image Analysis and Interpretation (MDA)**

Session Chair: Davide Moroni

11.15 am	Watermarking Stack of Grayscale Face Images as Dynamic Multi-Objective Optimization Problem <i>Bassem S. Rabil, Robert Sabourin, and Eric Granger</i>
11.45 am	Gaussian Noise and Discrete Cosine Transform Image Compression on Transmission of Dermatological Images <i>Kamil Dimililer and Cemal Kavalcioglu</i>
00.15 pm	Automatic Recognition of Mitotic HEp-2 Cells <i>Gennaro Percannella, Paolo Soda, and Mario Vento</i>
00.45 pm	Lunch

**Medical Diagnosis and Web-based Medical Diagnosis (MDA)**

Session Chair: Oriol Pont

01.45 pm	A Web Infrastructure for Emphysema Diagnosis and Follow-up through Computed Tomography Image Analysis. <i>Massimo Chimenti, Enrico Fantini, Massimo Miniati, Simonetta Monti, and Marco Tampucci</i>
02.15 pm	Supervised Machine Learning Methods for Quantification of Pulmonary Fibrosis <i>Manuel Stritt, Roman Bär, Joël Freyss, Julia Marrie, Enrico Vezzali, Edgar Weber, and Anna Stalder</i>
02.45 pm	Built-in Models for Diagnosis Availability <i>Calin Ciufudean, Otilia Ciufudean, and Constantin Filote</i>
03.15 pm	Coffee Break

**Aspects of Machine Learning and Data Mining (MLDM)**

Session Chair: Makoto Haraguchi

03.30 pm	Detection of Communities and Bridges in Weighted Networks <i>Tanwistha Saha, Carlotta Domeniconi, and Huzefa Rangwala</i>
04.00 pm	Techniques for Improving Filters in Power Grid Contingency Analysis <i>Robert Adolf, David Haglin, Mahantesh Halappanavar, Yousu Chen, and Zhenyu Huang</i>

04.30 pm	Comparing proximity measures for continuous and binary data: topological approach <i>Djamel Abdelkader Zighed and Rafik Abdesselam</i>
05.00 pm	Relational Fuzzy Clustering with Multiple Kernels <i>Naouel Baili and Hichem Frigui</i>
05.30 pm	Multi-Label Classification with Constrained Minimum Cut <i>Guangzhi Qu and Hui Wu</i>
07.00 pm	Banquet and Welcome and Presentation Ceremony of our VIP Participants

<b>Room 2</b>	
<b>WebMining/Information Mining (MLDM)</b>	
Session Chair: Krzysztof Grabczewski	
09.00 am	Authorship Similarity Detection from Email Messages <i>Xiaoling Chen, Peng Hao, R.Chandramouli, and K. P. Subbalakshmi</i>
09.30 am	Comparing the One-Vs-One and One-Vs-All Methods in Benthic Macroinvertebrate Image Classification <i>Henry Joutsijoki and Martti Juhola</i>
10.00 am	Coffee Break
10.15 am	An Investigation Concerning the Generation of Text Summarisation Classifiers using Secondary Data <i>Matias Garcia-Constantino, Frans Coenen, P.-J. Noble, Alan Radford, Christian Setzkorn and Aine Tierney</i>
<b>Classification and Decision Theory (MLDM)</b>	
Session Chair: Erik Pauwels	
10.45 am	ACE-Cost: Acquisition Cost Efficient Classifier by Hybrid Decision Tree with Local SVM Leaves <i>Liyun Li, Umut Topkara, and Nasir Memon</i>
11.15 am	Informative Variables Selection for Multi-Relational Supervised Learning <i>Dhafer Lahbib, Marc Boullé, and Dominique Laurent</i>
11.45 am	Decisions: Algebra and Implementation <i>Antonina Danylenko, Jonas Lundberg, and Welf Löwe</i>
<b>WebMining/Information Mining (MLDM)</b>	
Session Chair: Erik Pauwels	
00.15 pm	Incremental Web-Site Boundary Detection Using Random Walks <i>Ayesh Alshukri, Frans Coenen, and Michele Zito</i>
00.45 pm	Lunch
<b>Clustering (MLDM)</b>	
Session Chair: Ana Fred	
01.45 pm	Hierarchical Clustering with High Order Dissimilarities <i>Helena Aidos and Ana Fred</i>
02.15 pm	Clust-XPaths: Clustering of XML Paths <i>Amina Madani, Omar Boussaid, and Djamel Eddine Zegour</i>
02.45 pm	Comparing Clustering and Metaclustering Algorithms <i>Elio Lozano and Edgar Acuña</i>
03.15 pm	Coffee Break
<b>Classification and Decision Theory (MLDM)</b>	
Session Chair: Alexander Ulanov	
03.30 pm	Separability of Split Value criterion with weighted separation gains <i>Krzysztof Grabczewski</i>
04.00 pm	Granular Instances Selection for fuzzy modeling <i>S.Sakinah S.Ahmad and Witold Pedrycz</i>
04.30 pm	Parameter-free Anomaly Detection for Categorical Data <i>Shu Wu and Shengrui Wang</i>
05.00 pm	End conference day
07.00 pm	Banquet and Welcome and Presentation Ceremony of our VIP Participants

<b>Third Conference Day: September 1, 2011</b>	
Session Chair: Petra Perner	
09.00 am	<b>Invited Talk</b> <b>Intelligent Pattern Recognition and Applications</b> <b>- Biometrics, Biomedical Imaging, Modeling and Simulation</b> <i>Patrik S.P. Wang</i>
<b>Theoretical Aspects of Data Mining (ICDM)</b> Session Chair: Petra Perner	
09.45 am	Fast Data Acquisition in Cost-Sensitive Learning <i>Victor S. Sheng</i>
10.15 am	How to interpret Decision Trees? <i>Petra Perner</i>
10.45 am	Coffee Break
<b>Data Mining in Medicine (ICDM)</b> Session Chair: Warwick Graco	
11.00 am	Application of a Unified Medical Data Miner (UMDM) for Prediction, Classification, Interpretation and Visualization on Medical Datasets: the Diabetes Dataset Case <i>Nawaz Mohamudally and Dost Muhammad Khan</i>
11.30 am	Characterizing Cell Types through Differentially Expressed Gene Clusters Using a Model-based Approach <i>Juliane Perner and Elena Zotenko</i>
12.00	Melanoma Diagnosis and Classification Web Center System. The Non-Invasive Diagnosis Support Subsystem <i>Wieslaw Paja and Mariusz Wrzesieñ</i>
00.30 pm	Experiments with Hybridization and Optimization of the Rules Knowledge Base for Classification of MMPI Profiles <i>Jerzy Gomula, Wieslaw Paja, Krzysztof Pancierz, Teresa Mroczek, and Mariusz Wrzesieñ</i>
01.00 pm	Lunch
<b>Applications in Medicine (MLDM)</b> Session Chair: Leon Bobrowski	
02.00 pm	Detection of Phenotypes in Microarray Data using Force-directed Placement Transforms <i>Dragana Veljkovic Perez and Kay A. Robbins</i>
02.30 pm	On the Temporal Behavior of EEG Recorded During Real Finger Movement <i>Bashar Awwad Shiekh Hasan</i>
03.00 pm	A Machine Learning and Data Mining Framework to Enable Evolutionary Improvement in Trauma Triage <i>Douglas A. Talbert, Matt Honeycutt and Steve Talbert</i>
03.30 pm	A Decision Support System Based on the Semantic Analysis of Melanoma Images Using Multi-Elitist PSO and SVM <i>Weronika Piatkowska, Jerzy Martyna, Leszek Nowak, and Karol Przystalski</i>
04.00 pm	Coffee Break
<b>WebMining/Information Mining (MLDM)</b> Session Chair: Kay Robbins	
04.15 pm	Topic Sentiment Change Analysis <i>Yu Jiang, Weiyi Meng, and Clement Yu</i>
04.45 pm	Adaptive Context Modeling for Deception Detection in Emails <i>Peng Hao, Xiaoling Chen, Na Cheng, R.Chandramouli, and K.P. Subbalakshmi</i>
05.15 pm	Contrasting Correlations by an Efficient Double-Clique Condition <i>Aixiang Li, Makoto Haraguchi and Yoshiaki Okubo</i>



06.00 pm - 07.00 pm	<b>Poster and Industry Paper Session ICDM</b> Session Chair: Petra Perner
06.00 pm – 07.30 pm	<b>Workshop DMLS</b> <b>Session Chair:</b> Isabelle Bichindaritz

**Fourth Conference Day: September 2, 2011****Machine Learning and Image Mining (MLDM)**

Session Chair: Georg Russ

09.00 am	Mining Spatial Trajectories using Non-Parametric Density Functions <i>Chun-Sheng Chen, Christoph F. Eick, and Nouhad J. Rizk</i>
09.30 am	A Comparison between Haralick's Texture Descriptor and the Texture Descriptor based on Random Sets for Biological Images <i>Anja Attig and Petra Perner</i>
10.00 am	Exploring Synergetic Effects of Dimensionality Reduction and Resampling Tools on Hyperspectral Imagery Data Classification <i>J. S. Sánchez, V. García, and R. A. Mollineda</i>
10.30 am	Coffee Break
10.45 am	Estimating Image Segmentation Difficulty <i>Dingding Liu, Yingen Xiong, Kari Pulli and Linda Shapiro</i>

**Classification and Decision Theory (MLDM)**

Session Chair: Alexander Ulanov

11.15 am	Fuzzy Semi-Supervised Support Vector Machines <i>Houda Benbrahim</i>
11.45 am	GENCCS: A Correlated Group Difference Approach to Contrast Set Mining <i>Mondelle Simeon and Robert Hilderman</i>
00.15 pm	Lunch

**Theoretical Aspects of Data Mining (ICDM)**

Session Chair: Yuh-Jyh Hu

01.15 pm	Improvements over adaptive local hyperplane to achieve better classification <i>Hongmin Cai</i>
01.45 pm	Prognostic Models Based on Linear Separability <i>Leon Bobrowski</i>
02.15 pm	One Class Classification for Anomaly Detection: Support Vector Data Description Revisited <i>Eric J. Pauwels and Onkar Ambekar</i>
02.45 pm	Comparing Classifiers and Metaclassifiers <i>Elio Lozano and Edgar Acuña</i>
03.15 pm	Coffee Break

**Data Warehousing (ICDM)**

Session Chair: Yanbo Wang

03.30 pm	Graph-Based Data Warehousing Using the Core-Facets Model <i>Dung N. Lam, Alexander Y. Liu, and Cheryl E. Martin</i>
----------	--

**Data Mining in Marketing (ICDM)**

Session Chair: Yanbo Wang

04.00 pm	General Sales Forecast Models for Automobile Markets based on Time Series Analysis and Data Mining Techniques <i>Marco Hülsmann, Detlef Borscheid, Christoph M. Friedrich, and Dirk Reith</i>
----------	--

**Data Mining in Agriculture (ICDM)**

Session Chair: Mineichi Kudo

04.30 pm	Exploratory Hierarchical Clustering for Management Zone Delineation in Precision Agriculture <i>Georg Ruß and Rudolf Kruse</i>
05.00 pm	High Classification Rates for Continuous Cow Activity Recognition using Low-cost GPS Positioning Sensors and Standard Machine Learning Techniques <i>Torben Godsk and Mikkel Baum Kjærgaard</i>
05.30 pm	Mining Pixel Evolutions in Satellite Image Time Series for Agricultural Monitoring

	<i>Andreea Julea, Nicolas Méger, Christophe Rigotti, Emmanuel Trouvé, Philippe Bolon, and Vasile Lăzărescu</i>
<b>Aspects of Data Mining (ICDM)</b> Session Chair: Juliane Perner	
06.00 pm	Text Mining Scientific Papers: a Survey on FCA-based Information Retrieval Research <i>Jonas Poelmans, Paul Elzinga, Stijn Viaene, Guido Dedene, Sergei O. Kuznetsov</i>
06.30 pm	Comparing binary proximity measures <i>Djamel Abdelkader Zighed and Rafik Abdesselam</i>

**Fifth Conference Day: September 3, 2011**

**Room 1**

**Theory of Learning (MLDM)**

Session Chair: Michael Richter

09.00 am	Investigation in Transfer Learning: Better way to apply transfer learning between agents <i>Luiz Antonio Celiberto Junior and Jackson P. Matsuura</i>
09.30 am	Exploration Strategies for Learned Probabilities in Smart Terrain <i>John Sullins</i>
10.00 am	Sensitivity Analysis for Weak Constraint Generation <i>Jamshaid G. Mohebzada, Michael M. Richter, and Guenther Ruhe</i>
10.30 am	Coffee Break
10.45 am	Dictionary learning Based on Laplacian Score in Sparse Coding <i>Jin Xu and Hong Man</i>

**Aspects of Data Mining (ICDM)**

Session Chair: Wieslaw Paja

11.15 am	Methods in Case-based Classification in Bioinformatics: Lessons Learned <i>Isabelle Bichindaritz</i>
11.45 am	Prediction of batch-end quality for an industrial polymerization process <i>Geert Gins, Bert Pluymers, Ilse Y. Smets, Jairo Espinosa, and Jan F.M. Van Impe</i>
00.15 pm	Lunch

**WebMining/Information Mining (ICDM)**

Session Chair: Wieslaw Paja

01.15 pm	Towards a Spatial Instance Learning Method for Deep Web Pages <i>Ermelinda Oro and Massimo Ruffolo</i>
----------	---

**Classification and Decision Theory (MLDM)**

Session Chair: Isabelle Bichindaritz

01.45 pm	Spherical Nearest Neighbor Classification: Application to Hyperspectral Data <i>Dalton Lunga and Okan Ersoy</i>
02.15 pm	Adaptive Kernel Diverse Density Estimate for Multiple Instance Learning <i>Tao Xu, Iker Gondra, and David Chiu</i>
02.45 pm	Boosting Inspired Process for Improving AUC <i>Victor S. Sheng and Rahul Tada</i>
03.15 pm	Coffee Break
03.30 pm	Smoothing Multinomial Naïve Bayes in the Presence of Imbalance <i>Alexander Y. Liu and Cheryl E. Martin</i>
04.00 pm	Collective Classification Using Heterogeneous Classifiers <i>Zehra Cataltepe, Abdullah Sonmez, Kadriye Baglioglu, and Ayse Erzan</i>

**Clustering (MLDM)**

Session Chair: Isabelle Bichindaritz

04.30 pm	A Practical Approach for Clustering Transaction Data <i>Mohamed Bouguessa</i>
05.15 pm	Discussion and Best Paper Award
05.45 pm	End of Conference

<b>Room 2</b>	
09.00 am	<b>Workshop CBR-MD</b> Session Chair: Petra Perner
12.00	<b>Workshop DMA</b> Session Chair: Georg Ruß
02.15 pm	<b>Workshop DMM</b> Session Chair: Petra Perner
06.00 pm	<b>Workshop Get-To-Gether</b>

**Posters MLDM**

Session Chair: Petra Perner

	Rule Learning with Negation for Text Classification <i>Stephanie Chua and Frans Coenen</i>
	Distributed Evolutionary Optimization of Neural Network Topologies <i>Daniel Loy, Florian Schaefer, Sebastian Otte, and Dirk Krechel</i>
	Visual Attention Mechanisms for Data-Driven Multi-Scale Descriptor Extraction in Images <i>Ahmed Lakhssassi, Roman Palenichka, Michel Sayde and Marek Zaremba</i>
	Tuning Decision Tree Models by Imposing Visual Constraints <i>Gregor Stiglic, Simon Kocbek, Igor Pernek, and Peter Kokol</i>
	Combining Different Classifiers with Identical Features in Co-Training Method <i>Chang-Hwan Lee</i>
	RNN Based Sampling Technique for Effective Active Learning <i>Gaurav Maheshwari, Bhanukiran Vinzamuri, and Vikram Pudi</i>
	Validation of Click Fraud Detection Models <i>Wael Emara, Chamila Walgampaya, and Mehmed Kantardzic</i>
	Similarity-Based Attribute Selection with n-Grams <i>Alexander Ulanov, German Sapozhnikov, Georgy Shevlyakov, and Nickolay Lyubomishchenko</i>
	Automatic Vehicle Number Plate Recognition by Mathematical Morphology and Data Mining <i>Francisco Ortiz, Alfonso Naranjo and Alberto Gómez</i>
	Iris Recognition & Personal Authentication System Improve Efficiently <i>Anil Rajput, Niket Bhargava, Manmohan Singh, and Shivshakti Shrivastava</i>
	Concept Learning from Pieces of Information <i>Dominique Bouthinon</i>
	Using ISODATA to Cluster Microarray Genes Datasets <i>Rodolfo Garcia and Júlio Cesar Nievola</i>
	A Framework for Web Host Quality Detection <i>Ahmet Ayçan Atak and Sule Gunduz Oguducu</i>
	Segmentation and classification of blood smear particles in noisy and degraded microscopic images <i>M. Habibzadeha, A. Krzyżaka, T. Fevensa and A. Al-lahhamb</i>

<b>Posters ICDM</b>	
Session Chair: Petra Perner	
	Object Recognition in Herbarium Specimens <i>Karl-Heinz Steinke, Martin Gehrke, and Robert Dzido</i>
	Analysis of Patient Controlled Analgesia Demand Patterns <i>Yuh-Jyh Hu , Rong-Hong Jan, Kuochen Wang, Yu-Chee Tseng, Tien-Hsiung Ku, and Shu-Fen Yang</i>
	Label Recognition in Herbarium Specimens by using Database-Queries <i>Martin Gehrke, Karl-Heinz Steinke, and Robert Dzido</i>
	A Semantic Processing System (SPS) for Biomedical Literature Web Search <i>Joseph Leone and Dong-Guk Shin</i>
	COMESr - a Telemedical Assistance System for Early Recognition of Depression at Heart Failure <i>Thomas Spittler, Michael Handwerker, Petra Friedrich and Bernhard Wolf</i>
	Rank-r Updating Techniques for Fast Exact Cross-Validation <i>Yi-Cheng Tseng and Yuh-Jye Lee</i>
	Category-Based Intrusion Detection Using PCA <i>Gholam Reza Zargar and, Peyman Kabiri</i>
	Improving Keyphrase Extraction by Document Topic information <i>Gaurav Singh and Anirvana Mishra</i>
	Visualization and Exploration of Article's Revisions in Wikipedia <i>Li Hao</i>
	A CBR Approach for Extracting Coastal Aquaculture Area <i>Liu Peng and Du Yunyan</i>
	Gender Classification using Decision Trees <i>A. Q. Sheraz and K. A. Naeem</i>
	Statistical Procedure For Simultaneous Testing of Many Hypothesis <i>Gurpreet Singh Bawa</i>
	Topology Aware Functional Similarity of Protein Interaction Networks Based on Gene Ontology <i>Fei Li, Xiuliang Cui, Dafei Xie, Xiaochen Bo, and Shengqi Wang</i>
	Classifying Unbalanced Medical Dataset Using Hidden Markov Model and Particle Swarm Optimization <i>Zahra Hajihashemi, Mohammed Khalilia and Mihail Popescu</i>

<b>Industry Paper ICDM</b>	
	Applications of Just-In-Time Modeling to Product Quality Control in Steel Industry <i>Hiroyasu Shigemori</i>
	Two Client-Segmentation Methods for Compliance Risk Analysis <i>Warwick Graco, Anthony Nolan, Hari Koesmarno and Garry Mitchell</i>
	A Case Study of Data Mining in Retail Banking: Predict Attrition Risk of Vip Customers <i>Yanbo Wang</i>
	Auto Categorization of Food Safety Reports <i>Zohreh Nazeri and Timothy B. Allison</i>
	Implementing digital signal processing techniques and stochastic process theory for the on-line estimation of quality of combustion <i>Marco A. Ortega and Fernando H. Rosales</i>

# 11th Industrial Conference on Data Mining ICDM'2011

## Program Workshop CBR-MD

<b>September 3, 2011</b>	
Workshop Chair: Petra Perner	
9.00 am	A Comparison Between CBR and MLC in Order to Indentify Aquaculture Area from a Costal Image <i>Liu Peng and Du Yunyan</i>
9.30 am	A First Note on the Problem of Normalization and a Normalized Similarity Measure by Online Data <i>Anja Attig and Petra Perner</i>
10.00 am	A Case-Based Retrieval System for Post-Operative Pain Treatment <i>Mobyen Uddin Ahmed and Peter Funk</i>
10.30 am	A Case-Based Driver's State Monitoring System Using Physiological Sensor Signals <i>Shahina Begum</i>
11.00 am	Case Selection Evaluation Methodology <i>Jose M. Juarez, Eduardo Lupiani, and Jose Palma</i>
11.30 am	Discussion
12.00 am	End of Workshop
5.15 pm	Final Discussion World Congress DSA
5.45 pm	End of Conference
6.00 pm	Workshop Get-To-Gether



# 11th Industrial Conference on Data Mining ICDM'2011

## Program Workshop DMM

September 3, 2011	
Workshop Chair: Petra Perner	
2.15 pm	Prediction of New Customer-Product Affinities from Rich Dyadic Data using Localized Models <i>Aayush Sharma, Meghana Deodhar and Joydeep Ghosh</i>
2.45 pm	About the Use of Data Bases for Data Mining in Direct Marketing <i>Christiane Schatte and Petra Perner</i>
3.15 pm	Challenges and Techniques of Predictive Marketing <i>Andrea Ahlemeyer-Stube</i>
3.45 pm	Discussion
4.00 pm	End of Workshop
5.15 pm	Final Discussion World Congress DSA
5.45 pm	End of Conference
6.00 pm	Workshop Get-To-Gether

# 11th Industrial Conference on Data Mining ICDM'2011

## Program Workshop DMLS (together with Poster Session)

September 1, 2011

Workshop Chair: Isabelle Bichindaritz

	Object Recognition in Herbarium Specimens <i>Karl-Heinz Steinke, Martin Gehrke, and Robert Dzido</i>
	Analysis of Patient Controlled Analgesia Demand Patterns <i>Yuh-Jyh Hu, Rong-Hong Jan, Kuochen Wang, Yu-Chee Tseng, Tien-Hsiung Ku, and Shu-Fen Yang</i>
	Label Recognition in Herbarium Specimens by using Database-Queries <i>Martin Gehrke, Karl-Heinz Steinke, and Robert Dzido</i>
	A Semantic Processing System (SPS) for Biomedical Literature Web Search <i>Joseph Leone and Dong-Guk Shi</i>
	COMESr - a Telemedical Assistance System for Early Recognition of Depression at Heart Failure <i>Thomas Spittler, Michael Handwerker, Petra Friedrich and Bernhard Wolf</i>

# 11th Industrial Conference on Data Mining ICDM'2011

## Program Workshop DMA

September 3, 2011	
Workshop Chair: Georg Ruß	
12.00	Meteorological Data Mining: a Case Study in the Brazil Semi-Arid. <i>Jarbas Nunes Vidal Filho, Artur Luiz Torres de Oliveira, Paulo Cesar Moura da Silva, Rafael Castelo Guedes Martins, Danniell Cavalcante Lopes, Angélica Félix de Castro</i>
00.30 pm	HACC-spatial: Hierarchical Agglomerative Spatially Constrained Clustering <i>Georg Ruß</i>
01.00 pm	Recent Developments in Data Mining and Agriculture <i>A. Mucherino and G. Ruß</i>
01.30 pm	Discussion
02.00 pm	End of Workshop
5.15 pm	Final Discussion World Congress DSA
5.45 pm	End of Conference
6.00 pm	Workshop Get-To-Gether