

World Congress DSA 2012
The Frontiers in Intelligent Data and Signal Analysis

12th Industrial Conference on Data Mining ICDM'2012

**7th International Conference on Mass Data Analysis of Images and Signals
with Applications in Medicine, r/g/b Biotechnology, Food Industries and
Dietetics, Biometry and Security, and Agriculture MDA 2012**

**8th International Conference on Machine Learning
and Data Mining, MLDM 2012**

Program

Friday July 13, 2012	
09.00 am	Tutorial Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
10.30 am	Coffee Break
11.00 am	Tutorial Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
00.30 pm	Lunch
01.30 pm	Tutorial Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
03.00 pm	Coffee Break
03.30 pm	Tutorial Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
05.00 pm	End of Tutorial

Friday July 14, 2012	
09.00 am	Tutorial Standardization in Immunofluorescence
10.30 am	Coffee Break
11.00 am	Tutorial Standardization in Immunofluorescence
00.30 pm	Lunch
01.30 pm	Tutorial Standardization in Immunofluorescence
03.00 pm	Coffee Break
03.30 pm	Tutorial Standardization in Immunofluorescence
05.00 pm	End of Tutorial

Saturday July 14, 2012	
09.00 am –	Tutorial Case-Based Reasoning Tutorial
10.30 am	Coffee Break
11.00 am	Tutorial Case-Based Reasoning Tutorial
00.30 pm	Lunch
01.30 pm	Tutorial Case-Based Reasoning Tutorial
03.00 pm	Coffee Break
03.30 pm	Tutorial Case-Based Reasoning Tutorial
05.00 pm	End of Tutorial

Sunday July 15, 2012	
09.00 am	Tutorial Data Mining Tutorial
10.30 am	Coffee Break
11.00 am	Tutorial Data Mining Tutorial
00.30 pm	Lunch
01.30 pm	Tutorial Data Mining Tutorial
03.00 pm	Coffee Break
03.30 pm	Tutorial Data Mining Tutorial
05.00 pm	End of Tutorial

Sunday July 15, 2012

06.00 pm –
08.00 pm

Registration & Reception
Lobby Hotel Sylter Hof

Nominated for Best Paper Award MLDM

Proximity-Graph Instance-Based Learning, Support Vector Machines, and High Dimensionality:
An Empirical Comparison
Godfried T. Toussaint and Constantin Berzan

Transductive Relational Classification in the Co-Training Paradigm
Michelangelo Ceci, Annalisa Appice, Herna L. Viktor, Donato Malerba, Hongyu Guo, and Eric Paquet

Outcome prediction for patients with severe traumatic brain injury using permutation entropy analysis of
electronic vital signs data
*Konstantinos Kalpakis, Shiming Yang, Peter F. Hu, Colin Mackenzie, Lynn Stansbury, Deborah M. Stein, and
Thomas M. Scalea*

Nominated for Best Paper Award ICDM

Prognostic Modeling with High Dimensional and Censored Data
Leon Bobrowski and Tomasz Łukaszuk

SOHAC: Efficient Storage of Tick Data That Supports Search and Analysis
Gabor Nagy and Krisztian Buza

The influence of input and output measurement noise on batch-end quality prediction with Partial Least
Squares
Jef Vanlaer, Pieter Van den Kerkhof, Geert Gins, and Jan F.M. Van Impe

Nominated for Best Paper Award MDA

A New Method for Multifractal Spectrum Estimation with Applications to Texture Description
Jacques Levy Vehel and Michel Tesmer

Measuring the differences between Spatial Intelligence in different individuals using Lyapunov Exponents
Dante Augusto Couto Barone, Guilherme Maron, and Elias de Almeida Ramos

First Conference Day: Monday July 16, 2012	
Session Chair: Petra Perner	
09.00 am	Welcome to DSA (MLDM, ICDM, MDA) <i>Petra Perner</i>
09.15 am	Invited Talk Aspects of Data Mining <i>Graham Williams</i>
10.00 am	Coffee Break
Text Mining (MLDM) Session Chair: Isabelle Bichindaritz	
10.20 am	A Semi-Automated Approach to Building Text Summarisation Classifiers <i>Matias Fernando Garcia-Constantino, Frans Coenen, P-J Noble, Alan Radford, and Christian Setzkorn</i>
Image Mining (MLDM) Session Chair: Davide Moroni	
10.40 am	Multi-label Image Annotation Based on Neighbor Pair Correlation Chain <i>Guang Jiang, Xi Liu, and Zhi Zhong Shi</i>
11.00 am	Finding Correlations Between 3-D Surfaces: A Study In Asymmetric Incremental Sheet Forming <i>Muhammad Sulaiman Khan, Frans Coenen, Clare Dixon, and Subhieh El-Salhi</i>
WebMining (MLDM) Session Chair: Niels Kasch	
11.20 pm	Content independant metadata production as a machine learning problem <i>Sahar Changuel and Nicolas Labroche</i>
11.40 pm	Discovering K Web User Groups with Specific Aspect Interests <i>Jianfeng Si, Qing Li, Tiejun Qian, and Xiaotie Deng</i>
Data Mining in Biology (MLDM) Session Chair: Isabelle Bichindaritz	
12.00 pm	A Hybrid Approach to Increase the Performance of Protein Folding Recognition using Support Vector Machines <i>Lavneet Singh, Girija Chetty, and Dharmendra Sharma</i>
12.20 pm	Lunch
Theory (MLDM) Session Chair: Orlando Belo	
02.00 pm	Bayesian approach to the concept drift in the pattern recognition problems <i>Pavel Turkov, Olga Krasotkina, and Vadim Mottl</i>
02.20 pm	Transductive Relational Classification in the Co-Training Paradigm <i>Michelangelo Ceci, Annalisa Appice, Herna L. Viktor, Donato Malerba, Hongyu Guo, and Eric Paquet</i>
02.40 pm	Generalized Nonlinear Classification Model Based on Cross-Oriented Choquet Integral <i>Rong Yang and Zhenyuan Wang</i>
03.00 pm	Reduction of distance computations in selection of pivot elements for balanced GHT structure <i>László Kovács</i>
03.20 pm	<i>Break</i>
Theory in Data Mining: Association Rule Mining and Decision Rule Mining (ICDM) Session Chair: Yanbo Wang	
03.30 pm	ML-DS: A Novel Deterministic Sampling Algorithm for Association Rules Mining <i>Samir A. Mohamed Elsayed, Sanguthevar Rajasekaran, and Reda A. Ammar</i>

03.50 pm	Decision rules development using set of generic operations approach <i>Mariusz Wrzesien, Wieslaw Paja</i>
04.10 pm	Coffee Break
Text Mining (ICDM) Session Chair: Isabelle Bichindaritz	
04.30 pm	Redundant Dictionary Spaces as a General Concept for the Analysis of Non-Vectorial Data <i>Sebastian Martin Klenk, Jürgen Dippon, Andre Burkovski, and Gunther Heidemann</i>
04.50 pm	Human-centered text mining: a new software system. <i>Jonas Poelmans, Alexei Neznanov, Paul Elzinga, Sergei Kuznetsov, Stijn Viaene, and Guido Dedene</i>
Theory in Data Mining: Clustering (ICDM) Session Chair: Michelangelo Ceci	
05.10 pm	SHACUN : Semi-supervised hierarchical active clustering based on ranking constraints <i>Eya Ben Ahmed, Ahlem Nabli, and Faiez Gargouri</i>
05.30 pm	A Minimum Spanning Tree-Inspired Clustering-Based Outlier Detection Technique <i>Xiaochun Wang, Xia Li Wang, and D. Mitch Wilkes</i>
06.00 pm- 07.00 pm	Poster Session MLDM Session Chair: Calin Ciufudean
07.00pm	Muscle Plenary Meeting

Second Conference Day: Tuesday July 17, 2012	
Session Chair: Petra Perner	
09.00 am	Invited Talk Face Recognition <i>Xiaoqing Ding</i>
09.45 am	Invited Talk Quantitative Measurement of Cellular Events <i>Hualan Zhang</i>
10.30 am	Opening of Industrial Exhibition
10.30 am	Coffee Break
Computer Science Methods for Epidemiology (MDA)	
10.50 am	Availability of Epidemics Ripple Effects <i>Calin Ciufudean and Otilia Ciufudean</i>
Session Chair: Xiaoqing Ding	
Behaviorial Analysis (MDA)	
11.10 am	Measuring the differences between Spatial Intelligence in different individuals using Lyapunov Exponents <i>Dante Augusto Couto Barone, Guilherme Maron, and Elias de Almeida Ramos</i>
Image Reconstruction (MDA)	
11.30 am	Image Reconstruction and Identification of Noise and Instrumental Artifacts using Radon Transform - A challenge for medical imaging techniques <i>Mario D'Acunto, Davide Moroni and Ovidio Salvetti</i>
Motion Recognition (MDA)	
11.50 am	Dynamic Trajectory Indexing Method for Real Time Multiple Object Motion Recognition <i>Jianyu Yang, Y.F. Li, and Keyi Wang</i>
Texture Analysis (MDA)	
12.10 pm	A New Method for Multifractal Spectrum Estimation with Applications to Texture Description <i>Jacques Levy Vehel and Michel Tesmer</i>
12.30 pm	Lunch
Session Chair: Marko Tscherepanow	
Speech Analysis (MDA)	
02.00 pm	Speech Signals via Information Theory and Chebyshev Polynomials <i>R.J. Yanez, G. Carballo, and J.S. Dehesa</i>
Registration and Analysis of Images (MDA)	
02.20 pm	Registration and analysis of array images of general layout <i>Vitaly Galinsky</i>
Session Chair: Davide Moroni	
Aspects of Data Mining (ICDM)	
02.40 pm	Finding Rough Set Reducts to Reduce Boolean Expression Using Data Mining <i>Swati Verma and S. K. Gupta</i>
Aspects of Data Mining (MLDM)	
03.00 pm	Three-Dimensional Design of Error Correcting Output Codes <i>Mohammad Ali Bagheri, Qigang Gao, and Sergio Escalera</i>
03.20 am	Coffee Break

Data Mining in Network (MLDM)

Session Chair: Gert Gins

03.35 pm	Mining Ranking Models from Dynamic Network Data <i>Lucrezia Macchia, Michelangelo Ceci, and Donato Malerba</i>
03.55 pm	Application of Bagging, Boosting and Stacking to Intrusion Detection <i>Iwan Syarif, Ed Zaluska, Adam Prugel-Bennett, and Gary Wills</i>
05.00 pm	Walk over to Banquet Area
06.00 pm	Banquet

Third Conference Day: Wednesday July 18, 2012	
Data Mining in Engineering (ICDM)	
Session Chair: Warwick Graco	
9.00 am	Real-time mass flow estimation in circulating fluidized bed <i>Andriy Ivannikov and Mikko Jegoroff</i>
9.20 am	Representation in Case-Based Reasoning Applied to Control Reconfiguration <i>Ons Lejri and Moncef Tagina</i>
9.40 am	The influence of input and output measurement noise on batch-end quality prediction with Partial Least Squares <i>Jef Vanlaer, Pieter Van den Kerkhof, Geert Gins, and Jan F.M. Van Impe</i>
Data Mining in Traffic and Logistic (ICDM)	
Session Chair: Warwick Graco	
10.00 am	Bus Bunching Detection by Mining Sequences of Headway Deviations <i>Luis Moreira-Matias, Carlos Ferreira, João Gama, João Mendes-Moreira, and Jorge Freire de Sousa</i>
10.20 am	Coffee Break
Data Mining for Energy Industry (ICDM)	
Session Chair: Wieslaw Andrzej Paja	
10.40 am	Electricity Consumption Time Series Profiling: a Data Mining Application in Energy Industry <i>Hongyan Liu, Zhiyuan Yao, Tomas Eklund, and Barbro Back</i>
11.00 am	Wind turbines fault diagnosis using ensemble classifiers <i>Pedro Santos, Luisa F. Villa, Anibal Reñones, Andrés Bustillo, and Jesús Maudes</i>
Text Mining (MLDM)	
Session Chair: Jonas Poelmans	
11.20 am	A Pattern Discovery Model for effective Text Mining <i>Luepol Pipanmaekaporn</i>
11.40 am	Investigating usage of text segmentation and inter-passage similarities to improve text document clustering <i>Shashank Paliwal and Vikram Pudi</i>
12.00 pm	Text Categorization using an Ensemble Classifier based on a Mean Co-Association Matrix <i>Luis Moreira-Matias, João Mendes-Moreira, João Gama, and Pavel Brazdil</i>
12.20 pm	Lunch
Theory: Evaluation of Models and Performance Evaluation Methods (MLDM)	
Session Chair: Leon Bobrowski	
01.45 pm	Top-N Minimization Approach for Indicative Correlation Change Mining <i>Aixiang Li, Makoto Haraguchi, and Yoshiaki Okubo</i>
02.05 pm	Selecting Classification Algorithms with Active Testing <i>Rui Leite, Pavel Brazdil and Joaquin Vanschoren</i>
02.25 pm	Comparing logistic regression, neural networks, C5.0 and M5' classification techniques <i>Amit Thombre</i>
02.45 pm	Unsupervised Grammar Inference using the Minimum Description Length Principle <i>Upendra Sapkota, Barrett Bryant, and Alan Sprague</i>
03.05 pm	How Many Trees in a Random Forest? <i>Thais Mayumi Oshiro, Pedro Santoro Perez, and José Augusto Baranauskas</i>
03.25 pm	Coffee Break
Theory (MLDM)	
Session Chair: Davide Moroni	
03.40 pm	A General Lp-norm Support Vector Machine via Mixed 0-1 Programming

	<i>Hai Thanh Nguyen and Katrin Franke</i>
04.00 pm	Hot Deck Methods for Imputing Missing Data -The Effects of Limiting Donor Usage <i>Dieter William Joenssen and Udo Bankhofer</i>
04.20 pm	BINER: Binary search based efficient regression <i>Saket Bharambe, Harshit Dubey and Vikram Pudi</i>
04.40 pm	A New Approach for Association Rule Mining and Bi-clustering using Formal Concept Analysis <i>Kartick Chandra Mondal, Nicolas Pasquier, Anirban Mukhopadhyay, Ujjwal Maulik, and Sanghamitra Bandhopadhyay</i>
Session Chair: Petra Perner	
05.00 pm	Invited Talk Intelligent Pattern Recognition and Applications - An Interactive E-Learning System, Modeling and Simulation <i>Patrick S.P. Wang</i>
06.00 pm - 07.00 pm	Poster and Industry Paper Session ICDM Session Chair: Graham Williams

Fourth Conference Day: Thursday July 19, 2012	
Theory: Learning (MLDM)	
Session Chair: Leon Bobrowski	
09.00 am	Constructing Target Concept in Multiple Instance Learning Using Maximum Partial Entropy <i>Tao Xu, David Chiu, and Iker Gondra</i>
09.20 am	A New learning structure heuristic of Bayesian networks from data <i>Heni Bouhamed, Afif Masmoudi, Thierry Lecroq, and Ahmed Rebaï</i>
09.40 am	Discriminant Subspace Learning Based on Support Vectors Machines <i>Nikolaos Pitelis and Anastasios Tefas</i>
10.00 am	A new learning strategy of general BAMs <i>Hoa Thi Nong and The Duy Bui</i>
10.20 am	Coffee Break
Data Mining in Biometry and Security (MLDM)	
Session Chair: Patrick Wang	
10.40 am	Combination of Physiological and Behavioral Biometric for Human Identification <i>S.M. Emdad Hossain and Girija Chetty</i>
11.00 am	Detecting Actions by Integrating Sequential Symbolic and Sub-Symbolic Information in Human Activity Recognition <i>Michael Glodek, Friedhelm Schwenker, and Günther Palm</i>
11.20 am	Computer Recognition of Facial Expression of Emotion <i>Ewa Piatkowska and Jerzy Martyna</i>
11.40 am	A Pattern Recognition System for Malicious PDF Files Detection <i>Daive Maiorca, Giorgio Giacinto, and Iginio Corona</i>
Data Mining in Medicine (MLDM)	
Session Chair: Rainer Schmidt	
12.00 am	Outcome prediction for patients with severe traumatic brain injury using permutation entropy analysis of electronic vital signs data <i>Konstantinos Kalpakis, Shiming Yang, Peter F. Hu, Colin Mackenzie, Lynn Stansbury, Deborah M. Stein, and Thomas M. Scalea</i>
12.20 pm	EEG signals classification using a hybrid method based on negative selection and particle swarm optimization <i>Nasser Omer Ba-Karait, Siti Mariyam Shamsuddin, and Rubita Sudirman</i>
12.40 pm	Lunch
Data Mining in Medicine and Biology (ICDM)	
Session Chair: Orlando Belo	
02.00 pm	Efficient Storage of Tick Data That Supports Search and Analysis <i>Gabor Nagy and Krisztian Buza</i>
02.20 pm	Application of Classification Algorithms on IDDM Rat Data <i>Rainer Schmidt, Heike Weiss, and Georg Fuellen</i>
02.40 pm	Research in application of data mining methods to diagnosing gastric cancer <i>Arnis Kirshners, Serge Parshutin and Marcis Leja</i>
03.00 pm	Research Themes in the Case-Based Reasoning in Health Sciences Core Literature <i>Isabelle Bichindaritz</i>
03.20 pm	Coffee Break
Data Mining in Telecommunication (ICDM)	
Session Chair: Warwick Graco	
03.40 pm	Detecting Abnormal Patterns in Call Graphs based on the Aggregation of Relevant Vertex Measures <i>Ronnie Alves, Pedro Ferreira, Joel Ribeiro, and Orlando Belo</i>

Theory in Data Mining (ICDM)	
Session Chair: Georgio Giacinto	
04.00 pm	An Evolving Associative Classifier for Incomplete Database <i>Kaoru Shimada</i>
04.20 pm	Prognostic Modeling with High Dimensional and Censored Data <i>Leon Bobrowski and Tomasz Lukaszuk</i>
04.40 pm	CWFM: Mining Closed Contingency Weighted Frequent Itemsets <i>Eunyoung Park, Younghee Kim, Ieejoon Kim, Jaeyeol Yoon, Jiyeon Lim, and Ungmo Kim</i>
05.00 pm	Improving Classifier Performance by Knowledge-Driven Data Preparation <i>Laura Welcker, Stephan Koch, and Frank Dellmann</i>
05.30 pm	Podiums Discussion
-	"Benefits of WebMining and Online Targeting
06.30 pm	

Fifth Conference Day: Friday July 20, 2012

Room 1

Image Mining in Medicine (MLDM)

Session Chair: Giorgio Giacinto

09.00 am	Lung Nodules Classification in CT Images Using Shannon and Simpson Diversity Indices and SVM <i>Leonardo Barros Nascimento, Anselmo Cardoso de Paiva, and Aristofanes Corrêa Silva</i>
09.20 am	Comparative analysis of feature selection methods for blood cell recognition in leukemia <i>Tomasz Staroszczyk, Stanislaw Osowski, and Tomasz Markiewicz</i>
09.40 am	Classification of Breast Tissues in Mammographic Images in Mass and Non-Mass using McIntosh's Diversity Index and SVM <i>Péterson Moraes de Sousa Carvalho, Anselmo Cardoso de Paiva, Aristófanes Correa Silva</i>

Data Mining in Environment and Water Quality Detection (MLDM)

Session Chair: Giorgio Giacinto

10.00 am	DAGSVM vs DAGKNN: An Experimental Case Study with Benthic Macroinvertebrate Dataset <i>Henry Joutsijoki and Martti Juhola</i>
10.20 am	Coffee Break

Theory: Clustering (MLDM)

Session Chair: Patrick Wang

10.40 am	Semi Supervised Clustering: a Pareto Approach <i>Javid Ebrahimi and Mohammad Saniee Abadeh</i>
11.00 am	Semi-Supervised Clustering - A Case Study <i>Andreia Silva and Cláudia Antunes</i>
11.20 am	SOSTream: Self Organizing Density-Based Clustering Over Data Stream <i>Charlie Isaksson, Margaret H. Dunham, and Michael Hahsler</i>
11.40 am	Clustering Data Stream by a sub-window approach using DCA <i>Minh Thuy Ta, Hoai An Le Thi, and Lydia Boudjeloud Assala</i>
12.00 pm	Clustering Hybrids: Genetic Algorithm with K-means and Fuzzy C-means <i>Elio Lozano, Jose Olaya, and Alfredo Cruz</i>
12.20 pm	Improvement of K-means Clustering Using Patents Metadata <i>Mihai Vlase, Dan Munteanu, and Adrian Istrate</i>
12.40 pm	Lunch

Theory: Learning (MLDM)

Session Chair: Andreia Silva

02.00 pm	Proximity-Graph Instance-Based Learning, Support Vector Machines, and High Dimensionality: An Empirical Comparison <i>Godfried Toussaint and Constantin Berzan</i>
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Data Mining in Network (MLDM)

Session Chair: Lucrezia Macchia

02.20 pm	Machine Learning-Based Classification of Encrypted Internet Traffic <i>Talieh Seyed Tabatabaei, Mostafa Adel, Fakhri Karray and Mohamed Kamel</i>
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Image Mining (MLDM)

Session Chair: Jerzy Martyna

02.40 pm	An Algorithm for the Automatic Estimation of Image Orientation <i>Mariusz Borawski and Dariusz Frejlichowski</i>
03.00 pm	Enhancing image retrieval by an Exploration-Exploitation approach <i>Luca Piras, Giorgio Giacinto and Roberto Paredes</i>

03.20 pm	Coffee Break
Applications of Data Mining in Process Automation, Organisation Change Management, Telecommunication and Post Services (MLDM)	
Session Chair: Yanbo Wang	
03.40 pm	Classification of Elementary Stamp Shapes by Means of Reduced Point Distance Histogram Representation <i>P. Forczmanski and D. Frejlichowski</i>
04.00 pm	A Multiclassifier Approach for Drill Wear Prediction <i>Alberto Diez and Alberto Carrascal</i>
04.20 pm	Prediction of telephone user attributes based on network neighborhood information <i>Carlos Herrera-Yagüe and Pedro J. Zufiria</i>
04.40 pm	Measuring the Dynamic Relatedness between Chinese Entities Orienting to News Corpus <i>Zhishu Wang, Jing Yang, and Xin Lin</i>
05.00 pm	Discussion and Best Paper Award

Room 4 and 5	
09.00 am – 01.15 pm	Workshop CBR Session Chair: Petra Perner
02.00 pm – 05.15 pm	Workshop DMM (together with DMA) Session Chair: Georg Ruß
02.00 pm – 05.15 pm	Workshop DMA (together with DMM) Session Chair: Georg Ruß
09.00 am – 01.15 pm	Workshop DMLS Session Chair: Isabelle Bichindaritz and Rainer Schmidt

Saturday July 21, 2012

Saturday July 21, 2012	
09.00 am –	Tutorial Case-Based Reasoning Tutorial
10.30 am	Coffee Break
11.00 am	Tutorial Case-Based Reasoning Tutorial
00.30 pm	Lunch
01.30 pm	Tutorial Case-Based Reasoning Tutorial
03.00 pm	Coffee Break
03.30 pm	Tutorial Case-Based Reasoning Tutorial
05.00 pm	End of Tutorial

Posters MLDM	
	Classification of Arrhythmic ECG Data Using Machine Learning Techniques <i>Abhinav Vishwa, Mohit Kumar Lal, Sharad Dixit, and Pritish Vardwaj</i>
	Fuzzy Logistic Model Tree for Ordinal Data Prediction <i>Wen-Feng Hsiao and Yao-Tsung Chen</i>
	Educational News Articles Classification Based on Kolmogorov Complexity Theory and Machine Learning Approach <i>Hammed Abiodun Jimoh</i>
	A Class Method of Blind Source Extraction Using Second-order Statistics <i>Rongjie Wang</i>
	Fast Nystrom for Low Rank Approximation <i>Zhichao Wang, Huaxiang Zhang, and Linlin Cao</i>
	Machine Learning Approach for Study Course Comparison <i>Ilze Birzniece</i>
	Soccer team formation recognition using hierarchical fuzzy clustering <i>Mohammad Mottaghi, masoud daneshtalab, masoumeh ebrahimi, and Juha Plosila</i>
	Possibilistic Clustering and Feature Weighting based on Robust Modeling of Finite Generalized Dirichlet Mixture <i>Mohamed Maher Ben Ismail</i>

Posters ICDM	
	An efficient way to generate Association Rules with changed minimum support and confidence <i>Ashwath B. Rao</i>
	Novel approach to finding frequent itemset from dataset <i>Yatin Ghnashyambhai Patel</i>
	Build Your Personal Search Engine by Using Crawlzilla <i>Shun-Fa Yang and Yao-Tsung Wang</i>
	The Role of Effective Knowledge Management in Education Sector of Pakistan <i>Shafqat Hameed</i>
	Incremental On-line Clustering with a Topology-Learning Hierarchical ART Neural Network Using Hyperspherical Categories <i>Marko Tscherepanow</i>
	Analysis of Hypergraph Data with Application to Fraud Detection <i>Anna Leontjeva, Konstantin Tretjakov, Taavi Tamkivi, and Jaak Vilo</i>
	Commonsense Knowledge in Weblogs: Mining Script-like Structures from the Web <i>Niels Kasch and Tim Oates</i>
	A Novel Method for Extracting Information from Web pages with Multiple Presentation Template <i>Zaheer A. Jauhar</i>
	Using data mining algorithms for web Spam detection <i>Ann Zeki Ablahd and D.Bassam Ali Mustafa</i>
	Word of Mouth Quality Classification <i>Chihli Hung and Hsinyi Huang</i>
	Development of a software renderer for utilizing 3D contents on a 2D-based mobile system <i>Sungkwan Kang, Joonseub Cha, Seogung Kim, and Jongan Park</i>
	Electricity usage type selection and model validation based on electricity usage measurements <i>Teemu Mutanen, Tomi Sorasalmi, and Robert Weiss</i>
	A SCADA-data based data mining approach to estimate wind turbine loads <i>Claudia Hofemann and Gerard van Bussel</i>
	Applying of an Ontology-driven Case-based Reasoning System in Logistics <i>Hubert Klüpfel, Martin Kowalski, Stephan Zelewski, Daniel Bergenrodt, and Alexandra Saur</i>
	Performance Evaluation of Apriori and EARMGA Algorithm for Association Rule Mining <i>Sandeep Pratap Singh, Pardeep Kumar Khokhar, and Nitin</i>
	User Based Recommender Model for Social Tagging Systems <i>Zeynep Zengin Alp and Sule Gündüz Oguducu</i>
	Data Mining for Environment Monitoring <i>Sanad Suliman AL Maskari, Tony Chiffings, and Dinesh Kumar</i>
	A study of transfer of learning applying ontology-based assistant learning system <i>Kuo-Kuang Chu and Chien-I Lee</i>

Industry Paper ICDM	
	Two-phase KNN algorithm on sub-trajectory similarity search for efficient ballistic launching point estimation <i>Hyunjoong Kim, Soojin Kim, and Sungzoon Cho</i>
	Integration of an E-commerce with Data Mining <i>Kolade Olawande Owoeye</i>

	A Strategy for Clustering a Sparse Dataset <i>Warwick Graco, Anthony Nolan, and Hari Koesmarno</i>
	Next Step: a Career Path Prediction System <i>Christina Maniati</i>
	Key Factors for the Online (R)evolution - Branding and Data <i>Stephan Noller</i>
	Mining Association Rules from Customer Behaviors for Hotel Customer Cross-selling <i>Zhijie Jia, Gang Di, Wen Yu, Frans Coenen, and Yanbo J. Wang</i>
	A Hybrid LR/DT Classification Approach for Customer Attrition Risk Prediction in Retail Banking <i>Juan Lei, Gang Di, Frans Coenen, and Yanbo J. Wang</i>