Preliminary Program International Conference on Machine Learning and Data Mining, MLDM 2013

*(will be updated before the conference)*

**July 21, 2013**
06:00 pm Registration
08:00 pm

**July 22, 2013**
09:00 am Opening

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Session Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:10 am</td>
<td><strong>Session 11</strong></td>
<td><strong>Session Chair:</strong></td>
</tr>
<tr>
<td>09:10 am</td>
<td>The Gapped Spectrum Kernel for Support Vector Machines</td>
<td>Taku Onodera and Tetsuo Shibuya</td>
</tr>
<tr>
<td>09:30 am</td>
<td>Typhoon Damage Scale Forecasting with Self-Organizing Maps Trained by Selective Presentation Learning</td>
<td>Kazuhiro Kohara and Isao Sugiyama</td>
</tr>
<tr>
<td>09:50 am</td>
<td>Dynamic-radius Species-conserving Genetic Algorithm for the Financial Forecasting of Dow Jones Index Stocks</td>
<td>Michael Scott Brown, Michael J. Pelosi, and Henry Dirksa</td>
</tr>
<tr>
<td>10:10 am</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>10:20 am</td>
<td><strong>Session 12</strong></td>
<td><strong>Session Chair:</strong></td>
</tr>
<tr>
<td>10:20 am</td>
<td>Multi Model Transfer Learning with RULES Family</td>
<td>Hebah ElGibreen and Mehmet Sabih Aksoy</td>
</tr>
<tr>
<td>10:40 am</td>
<td>3D Geovisualisation Techniques Applied in Spatial Data Mining</td>
<td>Carlos Roberto Valencio, Thatiane Kawabata, Camila Alves de Medeiros, Rogeria Cristiane Gratao de Souza, and Jose Marcio Machado</td>
</tr>
<tr>
<td>11:00 am</td>
<td>Improving the Efficiency of Distributed Data Mining Using an Adjustment Work Flow</td>
<td>Jie Gao and Jörg Denzinger</td>
</tr>
<tr>
<td>11:20 am</td>
<td><strong>Coffee Break</strong></td>
<td></td>
</tr>
<tr>
<td>11:50 am</td>
<td><strong>Session 13</strong></td>
<td><strong>Session Chair:</strong></td>
</tr>
<tr>
<td>11:50 am</td>
<td>Sign Language Recognition with Support Vector Machines and Hidden Conditional Random Fields</td>
<td>Cesar Roberto de Souza and Ednaldo Brigante Pizzolato</td>
</tr>
<tr>
<td>12:10 pm</td>
<td>Classification and Outlier Detection based on Topic Based Pattern Synthesis</td>
<td>Kokkula Samrat and Narasimha Murty Musti</td>
</tr>
<tr>
<td>12:30 pm</td>
<td>Decremental Learning of Evolving Fuzzy Inference Systems, Application to Handwritten Gestures Recognition</td>
<td>Manuel Bouillon, Eric Anquetil, and Abdullah Almaksour</td>
</tr>
<tr>
<td>12:50 pm</td>
<td>Unsupervised Tagging of Spanish Lyrics Dataset Using Clustering</td>
<td>Fabio Leonardo Parra and Elizabeth León</td>
</tr>
</tbody>
</table>
01:10 pm  Lunch

02:10 pm  Session 14  Session Chair: Sinziana Mazilu, Alberto Calatroni, Eran Gazit, Daniel Roggen, Jeffrey M. Hausdorff, and Gerhard Tröster

02:10 pm  Feature Learning for Detection and Prediction of Freezing of Gait in Parkinson’s Disease

02:30pm  Multi-Document Text Summarization using Topic Model and Fuzzy Logic

02:50 pm  A Pattern Based Two-stage Text Classifier

03:10 pm  Break

03:20 pm  Session 15  Session Chair: CHUEN-MIN HUANG and YEN-JIA CHANG

03:20 pm  Applying a Lightweight Iterative Merging Chinese Segmentation in Web Image Annotation

03:40 pm  Relevance As a Metric for Evaluating Machine Learning Algorithms

04:00 pm  Preceding Rule Induction with Instance Reduction Methods

04:20 pm  Coffee Break

04:50 pm  Session 16  Session Chair: Carly Stambaugh, Hui Yang, and Felix Breuer

04:50 pm  Analytic Feature Selection for Support Vector Machines

05:10 pm  Evaluation of Hyperspectral Image Classification using Random Forest and Fukunaga-Koontz Transform

05:30 pm  SOM++: Integration of Self-Organizing Map and K-Means++ Algorithms

05:50 pm  Break

06:00 pm  Session 17  Session Chair: Muhammad Syafiq Mohd Pozi, Aida Mustapha, and Anas Daud

06:00 pm  Satellite Image Mining for Census Collection: A Comparative Study With Respect to the Ethiopian Hinterland

06:20 pm  Density Ratio Estimation in Support Vector Machine for Better Generalization: Study on Direct Marketing Prediction

06:40 pm  Pacc - A Discriminative and Accuracy Correlated Measure for Assessment of Classification Results
Madhav Sigdel and Ramazan S. Aygün
07:00 pm Large scale visual classification with many classes
Doan Thanh Nhi, Do Thanh Nhi, and Francois Poulet

07:20pm  End of First Conference Day

July 23, 2013
08:00 am  Registration
09:00 am  Session 21  Session Chair:
09:00 am  A Single-Domain, Representation-Learning Model for Big Data Classification of Network Intrusion
Shan Suthaharan
09:20 am  Relation Decomposition
Robert Martin Haralick, Ligon Liu, and Evan Misshula
09:40 am  Using Turning Point Detection to Obtain Better Regression Trees
Paul K. Amalaman, Christoph F. Eick, and Nouhad Rizk

10:00 am  Coffee Break

10:30 am  Session 22  Session Chair:
10:30 am  Automatic Classification of Web Databases using domain-dictionaries
Heidy M. Marin-Castro, Victor J. Sosa-Sosa, Ivan Lopez-Arevalo, and Hugo J. Escalante-Balderas
10:50 am  An Efficient and Scalable Algorithm for Mining Maximal High Confidence Rules from Microarray Dataset
Wael Zakaria Abd Allah, Yasser Kotb El Sayed, and Fayed Mohamed Ghaleb
11:10 am  Partial Discharge Analysis and Inspection Alert Generation in High Power Transformers: A Case Study of an autotransformer bank at Eletrobrás-ELETRONORTE Vila do Conde Station
Carlos Takeshi Kudo Yasojima, Matheus Seribeli Furmigare, Fernando de Souza Brasil, Terezinha Ferreira de Oliveira, and Antonio Morais da Silveira

11:30 am  Break

11:40 am  Session 23  Session Chair
11:40 am  Smart Meter Data Analysis for Power Theft Detection
Daniel Nikolaev Nikovski, Zhenhua Wang, Alan Esenther, Hongbo Sun, Keisuke Sugiura, Toru Muso, and Kaoru Tsuru
12:00 pm  Discovering Frequent Itemsets on Uncertain Data: a Systematic Review
Juliano Varella de Carvalho and Duncan Dubugras Ruiz
12:20 pm  Mining Groups of Common Interest: Discovering Topical Communities with Network Flows
Liyun Li and Nasir Memon

12:40 pm  Lunch
01:40 pm  Session 24  Session Chair:
01:40 pm  Optimal Time Segments for Stress Detection
Nandita Sharma and Tom Gedeon
02:00 pm  Personalized Expert-based Recommender System: Training C-SVM for Personalized Expert Identification
Yeounoh Chung, Hye-Wuk Jung, Jaekwang Kim, and Jee-Hyong Lee
02:30 pm  Investigating Long Short-Term Memory Networks for various Pattern Recognition Problems
Sebastian Otte, Marcus Liwicki, and Dirk Krechel

02:50 pm  Break

03:00 pm  Session 25  Session Chair:
03:00 pm  A Comparative Study on Mobile Visual Recognition
Elisavet Chatzilari, Georgios Liaros, Spiros Nikolopoulos, and Yiannis Kompatsiaris
03:20 pm  Accuracy-Based Classification EM: Combining Clustering with Prediction
Stephanie Sapp and Armand Prieditis
03:40 pm  When Classification Becomes a Problem: Using Branch-and-Bound to Improve Classification Efficiency
Armand Prieditis and Moontae Lee

04:00 pm  Coffee Break and Poster Session

05:30 pm  End of Second Conference Day

06:00 pm  Banquet in The Newark Club

July 24, 2013

08:00 am  Registration
09:00 am  Session 31  Session Chair:
09:00 am  EEG feature selection based on time series classification
Michal Vavrecka and Lenka Lhotska
09:20 am  An Improved GEP-Cluster Algorithm
Xin Du, Yuan Shen, Hancheng Xiao, Youcong Ni, Huihui Chen, Lingzhe Teng
09:40 am  DCA based algorithms for feature selection in Semi-Supervised Support Vector Machines
Hoai Minh LE, Hoai An LE THI, and Manh Cuong NGUYEN

10:00 am  Coffee Break

10:30 am  Session 32  Session Chair:
10:30 am  KDBuss Framework: Knowledge Discovery with Association Rules in the Business Context
Diana Benavides Prado and María Villamil Giraldo
10:50 am  Information Gap Analysis for Decision Support Systems in Evidence Based Medicine
Kari Sentz and Francois M. Hemez

11:10 am  TISA: Topic Independence Scoring Algorithm
Justin Christopher Martineau, Doreen Cheng, and Tim Finin

11:40 am  Break

11:50 am  **Session 33**  **Session Chair:**
11:50 am  Pre-release box-office success prediction for motion pictures
Rohit Parimi and Doina Caragea
12:10 pm  Shifting Concepts to Their Associative Concepts via Bridges
Hongjie Zhai, Makoto Haraguchi, Yoshiaki Okubo, Kiyota Hashimoto, and Sachio Hirokawa
12:40 pm  Analysis of growth in Students Intake and Degree Awarding Contribution: A Comparison of Stanford and MIT
Maqbool Ali, Hammad Qureshi, and Muhammad Suhail Akhtar

01:00 pm  Lunch

02:00 pm  **Session 34**  **Session Chair**
02:00 pm  Lazy Overfitting Control
Armand Prieditis and Stephanie Sapp
02:20 pm  Using Part of Speech N-grams for Improving Automatic Speech Recognition of Polish
Aleksander Pohl and Bartosz Ziolko
02:40 pm  An Empirical Study of Reducing Multiclass Classification Methodologies
R. Kyle Eichelberger and Victor S. Sheng

03:00  Coffee Break

03:30 pm  **Session 35**  **Session Chair:**
03:30 pm  Extracting Information from Synthetic and Social Networks using Pseudo-bicliques
Zareen Alamgir, saira karim, and syed husnine
03:50 pm  An evaluation of probabilistic naive-Bayes approach for alert correlation and monitoring target events
salem benferhat and kenaza Tayeb
04:10 pm  A Fast Heuristics for Inferring Approximately Minimal Diagnostic Tests (AMDTs) for Pattern Recognition
Xenia Alexandrovna Naidenova

04:30 pm  Break

04:40 pm  **Session 36**  **Session Chair:**
04:40 pm  Mining your way to a solid survey
Ana Costa e Silva
05:00 pm  Area Under the Distance Threshold Curve as an Evaluation Measure for Probabilistic Classifiers
Sydney Nicole Williams, Michael Harris, Jacob Furst, and Daniela Raicu

05:20 pm  Discussion and Best Paper Award Ceremony
05:30 pm  End of Conference