

List of Accepted Papers of ICMLA 2016

Acceptance Rate:

Regular Papers : 24.69%

Poster Papers : 31.98%

Session1: Time Series (Dec. 18 at 9:30am)	
173	<i>Improved Time Series Classification with Representation Diversity and SVM</i> Rafael Giusti, Diego Silva and Gustavo Batista
248	<i>Iterative Grammar-based Framework for Discovering Variable-Length Time Series Motif</i> Yifeng Gao, Jessica Lin and Huzefa Rangwala
82	<i>Filer Response Time Prediction using Adaptively-learned Forecasting Models based on Counter Time Series Data</i> Saurabh Deshpande, Kumar Dheenadayalan, G Srinivasaraghavan and Vn Muralidhara
210	<i>Dynamic factor mixture of experts for functional time series modeling</i> Allou Samé
Session2: Kernel Methods (Dec. 18 at 9:30 am)	
232	<i>Inferring Hearing Loss from Learned Speech Kernels</i> Bonny Banerjee, Masoumeh Heidari Kapourchali, Shamima Najnin, Lisa Lucks Mendel, Sungmin Lee, Chhayakanta Patro and Monique Pousson
160	<i>Automatic Optimization of Localized Kernel Density Estimation For Hotspot Policing</i> Mohammad Al Boni and Matthew Gerber
190	<i>Robust Kernel Embedding of Conditional and Posterior Distributions with Applications</i> Muhammad Nawaz and Omar Arif
106	<i>Conformalized Kernel Ridge Regression</i> Ivan Nazarov and Evgeny Burnaev
Session3: Deep Neural Networks (Dec. 18 at 11:10 am)	
128	<i>Automated Optimal Architecture of Deep Convolutional Neural Networks for Image Recognition</i> Saleh Albelwi and Ausif Mahmood
214	<i>Infrared Colorization Using Deep Convolutional Neural Networks</i> Matthias Limmer and Hendrik Lensch
216	<i>Assessing Threat of Adversarial Examples against Deep Neural Networks</i> Abigail Graese, Andras Rozsa and Terrance E. Boult
254	<i>Correlating Filter Diversity with Convolutional Neural Network Accuracy</i> Casey Graff and Jeffrey Ellen

Session4: Human Activity & Behavior Recognition (Dec. 18 at 11:10 am)	
57	<i>A Hierarchical Meta-Classifier for Human Activity Recognition</i> Anzah Niazi, Delaram Yazdansepas, Jennifer Gay, Frederick Maier, Lakshmish Ramaswamy, Khaled Rasheed and Matthew Buman
257	<i>Interaction Network Representations for Human Behavior Prediction</i> Amnay Amimeur, Hai Phan, Dejing Dou, Brigitte Piniewski and David Kil
44	<i>Predicting Future Agent Motions for Dynamic Environments</i> Fabio Previtali, Alejandro Bordallo, Luca Iocchi and Subramanian Ramamoorthy
38	<i>Demographic Group Prediction Based on Smart Device User Recognition Gestures</i> Adel Alharbi and Mitchell Thornton
Session5: ML for Text Documents (Dec. 18 at 2:45 pm)	
253	<i>Cross-Document Knowledge Discovery Using Semantic Concept Topic Model</i> Xin Li and Wei Jin
252	<i>Domain Ontology Induction using Word Embeddings</i> Niharika Gupta, Sanjay Podder, Annervaz K M and Shubhashis Sengupta
15	<i>Latent Topic-semantic Indexing based Automatic Text Summarization</i> Jiangsheng Yu and Xuewen Chen
150	<i>An Investigation of Ensemble Techniques for Detection of Spam Reviews</i> Brian Heredia, Taghi Khoshgoftaar, Joseph Prusa and Michael Crawford
Session6: Applications in Biology & Medicine (Dec. 18 at 2:45 pm)	
188	<i>A Re-estimation Brain Storm Optimization to Train Hidden Markov Model for Transcription Factor Binding Site Analysis</i> Xinyuan Ma and Haibin Duan
30	<i>Inferring Gene Regulatory Networks by Combining Supervised and Unsupervised Methods</i> Turki Turki, Jason T. L. Wang and Ibrahim Rajikhan
234	<i>Bag of Bags: Nested Multi Instance Classification for Prostate Cancer Detection</i> Farzad Khalvati, Junjie Zhang, Alexander Wong and Masoom A. Haider
126	<i>Decoding Epileptogenesis in a Reduced State Space</i> Francois Meyer, Alexander Benison, Zachariah Smith and Daniel Barth
Session7: Applications-I (Dec. 18 at 4:25 pm)	
259	<i>Machine Learning for Plant Disease Incidence and Severity Measurements from Leaf Images</i> Ernest Mwebaze, Godliver Owomugisha and Michael Biehl
89	<i>Exposing Inpainting Forgery in JPEG Images under Combination Attacks</i> Qingzhong Liu
60	<i>Recognition and Analysis of the Contours Drawn During the Poppelreuter's Test</i> Sven Nomm, Aaro Toomela, Toomas Toomsoo, Julia Kozhenkina, Konstantin Bardosh and Ilja Masarov
27	<i>Automatic Species Recognition Based on Improved Birdsong Analysis</i> Guangzhi Qu
Session8: ML for Security & Fraud Detection (Dec. 18 at 4:25 pm)	

251	<i>ECG Biometric Identification Using Wavelet Analysis Coupled with Probabilistic Random Forest</i> Robin Tan and Marek Perkowski
206	<i>A Multifaceted Approach to Bitcoin Fraud Detection: Global and Local Outliers</i> Patrick Monamo, Vukosi Marivate and Bhekisipho Twala
80	<i>Toward an Online Anomaly Intrusion Detection System Based on Deep Learning</i> Khaled Alrawashdeh and Carla Purdy
198	<i>Android Malware Detection: Building Useful Representations</i> Luiza Sayfullina, Emil Eirola, Dmitry Komashinsky, Paolo Palumbo and Juha Karhunen
Session9: Learning-I (Dec. 19 at 9:30 am)	
184	<i>Investigating Transfer Learners for Robustness to Domain Class Imbalance</i> Karl Weiss and Taghi Khoshgoftaar
140	<i>Learning Fairness under Constraints: A Decentralized Resource Allocation Game</i> Qinyun Zhu and Jae Oh
226	<i>Bayesian Unification of Gradient and Bandit-based Learning for Accelerated Global Optimisation</i> Ole-Christoffer Granmo
166	<i>Are Accuracy and Robustness Correlated?</i> Andras Rozsa, Terrance E. Boult and Manuel Gunther
209	<i>Advanced Image Classification Methods using Wavelets and Convolutional Neural Networks</i> Travis Williams and Robert Li
Session10: Clustering (Dec. 19 at 9:30 am)	
65	<i>Consensus Clustering: A Resampling-based Method for Building Radiation Hybrid Maps</i> Raed Seetan, Jacob Bible, Michael Karavias, Wael Seitan and Sam Thangiah
215	<i>An LED based Indoor Localization System using k-means Clustering</i> Muhammad Saadi, Tougeer Ahmad, Yan Zhao and Lunchakorn Wuttisttikulkij
29	<i>Distributed conformal anomaly detection</i> Ilia Nourtdinov
141	<i>Phase Identification in Electric Power Distribution Systems by Clustering of Smart Meter Data</i> Wenyu Wang, Nanpeng Yu, Brandon Foggo and Joshua Davis
Session11: Deep Learning (Dec. 19 at 11:10 am)	
7	<i>Density-based Data Pruning Method for Deep Reinforcement Learning</i> Teerapat Rojanaarpa and Irina Kataeva
228	<i>Identifying Nontechnical Power Loss via Spatial and Temporal Deep Learning</i> Rajendra Bhat, Rodrigo Daniel Trevizan, Rahul Sengupta, Xiaolin Li and Arturo Bretas
196	<i>Bird Call Identification using Dynamic Kernel based Support Vector Machines and Deep Neural Networks</i> Deep Chakraborty, Paawan Mukker, Padmanabhan Rajan and Dileep Aroor Dinesh
231	<i>A Next-Generation Secure Cloud-Based Deep Learning License Plate Recognition for Smart Cities</i> Rohith Polishetty, Mehdi Roopaei, Paul Rad

Session 12: Applications-II (Dec. 20 at 8:30 am)	
147	<i>Energy Efficient EEG Monitoring System for Wireless Epileptic Seizure Detection</i> Ramy Hussein, Rabab Ward and Z. Jane Wang
142	<i>Using Domain Knowledge Features for Wind Turbine Diagnostics</i> R Lily Hu, Kevin Leahy, Ioannis Konstantakopoulos, David Auslander, Costas Spanos and Alice Agogino
125	<i>Improving HSDPA Traffic Forecasting Using Ensemble of Neural Networks</i> Isah Abdullahi Lawal, Salihu Abdulkarim, Muhammad Kabir Hassan and Jibrin Mohammed Sadiq
Session13: Learning-II (Dec. 19 at 2:00 pm)	
63	<i>Nonlinear Metric Learning for Semi-Supervised Learning via Coherent Point Drifting</i> Pin Zhang, Bibo Shi, Charles Smith and Jundong Liu
88	<i>Adaptive thresholding and reweighting to improve domain transfer learning for unbalanced data with applications to EEG imbalance</i> Kyungmin Su, William Hairston and Kay Robbins
122	<i>L1-norm Principal-Component Analysis via Bit Flipping</i> Panos Markopoulos, Sandipan Kundu, Shubham Chamadia and Dimitris Pados
54	<i>Event Based Weight Update for Learning Infinite Spike Train</i> Sumit Bam Shrestha and Qing Song
Session14: Applications-III (Dec. 19 at 2:00 pm)	
235	<i>Comparing Gaussian Mixture Model and Hidden Markov Model to Classify Unique Physical Activities from Accelerometer Sensor Data</i> Arindam Dutta, Owen Ma, Matthew P. Buman and Daniel W. Bliss
163	<i>A Probabilistic Programming Approach for Outlier Detection in Healthcare Claims</i> Richard Bauder and Taghi Khoshgoftaar
168	<i>Automatic Algorithm Selection in Computational Software Using Machine Learning</i> Matthew Simpson, Qing Yi and Jugal Kalita
49	<i>System-Level Test Case Prioritization using Machine Learning</i> Remo Lachmann, Sandro Schulze, Manuel Nieke, Christoph Seidl and Ina Schaefer
Session15: Graphs Methods (Dec. 19 at 12:10 pm)	
69	<i>Detecting Smooth Cluster Changes in Evolving Graphs</i> Sohei Okui, Kaho Osamura and Akihiro Inokuchi
48	<i>A Privacy-Preserving Solution for the Bipartite Ranking Problem</i> Noushin Salek Faramarzi, Erman Ayday and H. Altay Guvenir
Session16: Social Media Applications (Dec. 20 at 9:30 am)	
61	<i>Temporal Link Prediction Using Time Series of Quasi-Local Node Similarity Measure</i> Alper Ozcan and Sule Oguducu
8	<i>DERIV: Distributed In-memory Brand Perception Tracking Framework</i> Manu Shukla, Ray Dos Santos, Andrew Fong and Chang-Tien Lu
246	<i>Hybrid Recommendation Model based on a contextual similarity between users</i> Amel Hannech, Mehdi Adda and Hamid Mcheick

189	<i>Macro-optimization of email recommendation response rates harnessing individual activity levels and group affinity trends</i> Mohammed Korayem, Khalifeh Aljadda and Trey Grainger
Special Session1: Machine Learning Applications in Education (Dec. 19 at 11:10 am)	
28	<i>Course Learning Outcome Performance Improvement: A Remedial Action Classification Based Approach</i> Ilyes Jenhani
36	<i>Extending Soft Sets towards the Optimality of Decision based on Multiple Decisions over the Same Data</i> Farooq Ahmad
39	<i>A Formal Design for the Lexical and Syntax Analyzer of a Pedagogically Effective Subset of C++</i> Shoaib Farooq
64	<i>Analysis for Status of the Road Accident Occurance and Determination of the Risk of Accident by Machine Learning in Istanbul</i> Halil ibrahim BULBUL, Tarik KAYA, and Yusuf TULGAR
34	<i>Classifying educational materials in low-resource languages</i> Gihad Sohsah, Onur Guzey,Zaina Tarmanini
Special Session2: Machine Learning in Energy Application (Dec. 20 at 1:50 pm)	
17	<i>k-Means Partition of Monthly Average Insolation Period Data for Turkey</i> ILHAMI COLAK, Mehmet YESILBUDAK, Ramazan BAYINDIR
21	<i>Hourly solar irradiance forecasting based on machine learning models</i> Fateh Nassim MELZI, Taieb TOUATI, Allou SAME and Latifa OUKHELLOU
24	<i>Applying the meta-heuristic prediction algorithm for modeling Power Density in Wind Power Plant</i> Ramazan BAYINDIR, Melike AYZ, Hamdi KAHRAMAN and ILHAMI COLAK
67	<i>Faults Investigation of Transformer Windings Using the Frequency Response Analysis FRA</i> Moustafa Sahnoune CHAOUICHE, Hamza HOUASSINE, Samir MOULAHOUUM and ILHAMI COLA
68	<i>A Study on Effects of Different Control Period of Neural Network Based Reference Modified PID Control for DC-DC Converters</i> Dr. Hidenori MARUTA, Hironobu TANIGUCHI and Fujio KUROKAWA
Special Session3: Machine Learning in Information and Cyber Security Issues (Dec. 20 at 11:10 am)	
5	<i>Enhanced Approach to Detection of SQL Injection Attack</i> Bing Zhou
11	<i>Towards Web Spam Filtering using a Classifier based on the Minimum Description Length Principle</i> Renato Silva
13	<i>Early Identification of Vulnerable Software Components via Ensemble Learning</i> Yulei Pang
27	<i>Building a Platform for Software-Defined Networking Cybersecurity Applications</i> Chongya Song
37	<i>Identifying Gender From SMS Text Messages</i> Cihan Varol

43	<i>Biometric Recognition Through Machine Learning Techniques and Security Assessment of Implementation Process</i> Ezgi Yorulmaz
Special Session4: Machine Learning for Big Data (Dec. 19 at 3:40 pm)	
9	<i>A Web Based Pipeline Tool for the Combination of Logic Conditions for NGS Data</i> Hui Li and Chunmei Liu
49	<i>A Parallel K-Medoids Algorithm for Clustering based on MapReduce</i> M. Omair Shafiq and Eric Torunski
50	<i>A Big Data Analytics Framework for Supporting Multidimensional Mining over Big Healthcare Data</i> Mario Bochicchio, Alfredo Cuzzocrea and Lucia Vaira
56	<i>An Effective and Efficient Similarity-Matrix- Based Algorithm for Clustering Big Mobile Social Data</i> Gloria Bordogna, Alfredo Cuzzocrea, Luca Frigerio and Giuseppe Psaila
58	<i>Hedonic Housing Theory – A Machine Learning Investigation</i> Timothy Oladunni and Sharad Sharma
Special Session5: Machine Learning for Predictive Models in Engineering Applications (Dec. 20 at 11:10 am)	
3	<i>Feedforward Neural Networks for Predicting the Duration of Maintained Software Projects</i> Cauhtémoc López-Martín
15	<i>Equipment condition diagnosis and fault fingerprint extraction in semiconductor manufacturing</i> Hamideh Rostami, Jakey Blue and Claude Yugma
32	<i>A Hybrid Machine Learning Approach for Planning Safe Trajectories in Complex Traffic-Scenario</i> Amit Chaulwar, Michael Botsch and Wolfgang Utschick
46	<i>Efficient Content Replacement in Wireless Content Delivery Network with Cooperative Caching</i> Jihoon Sung, Kyounghe Kim, Junhyuk Kim and June-Koo Rhee
59	<i>Spatial Dependency and Hedonic Housing Regression Model</i> Timothy Oladunni
65	<i>Constructing a Deep Regression Model Utilizing Cascaded Sparse Autoencoders and Stochastic Gradient Descent</i> Arezu Moussav, Mo Jamshidi
38	<i>A novel algorithm for dynamic clustering: properties and performance</i> Nathalie Barbosa, Louise Travé-Massuyès, Victor Grisales
66	<i>User Movement Prediction: The Contribution of Machine Learning Techniques</i> Shadi Banitaan, Mohammad Azzeh, and Ali Bou Nassif
Special Session6: Machine Learning Techniques in Bioinformatics (Dec. 20 at 8:30 am)	
7	<i>Validation of a quantifier-based fuzzy classification system for breast cancer patients on external independent cohorts</i> Daniele Soria, Jonathan Garibaldi
12	<i>Review on Machine Learning Based Lesion Segmentation Methods from Brain MR Images</i> Evgin Goceri, Esther Dura Martinez and Melih Gunay
22	<i>Machine Learning for Optimum CT-Prediction for qPCR</i>

	Melih Gunay, Evgin Goceri and Rajarajeswari Balasubramaniyan
25	<i>Iteratively learning a liver segmentation using probabilistic atlases: preliminary results</i> Esther Dura Martinez, Juan Domingo and Evgin Goceri
31	<i>Probabilistic Expert Systems for Reasoning in Clinical Depressive Disorders</i> Blessing Ojeme, Audrey Mbogho and Thomas Meyer
40	<i>Feature Fusion for Denoising and Sparse Autoencoders: Application to Neuroimaging Data</i> Arezu Moussavi, Mo Jamshidi and Subhashie Wijemanne
999	<i>Differentiation and Integration of Machine Learning Feature Vectors</i> Xinying Mu, Ana B. Pavely and Mark Konz
	Workshop on Machine Learning in Security of Cyber-Physical Systems (Dec. 19 at 3:40 pm)
14	<i>HMM-based Intrusion Detection System for Software Defined Networking</i> Alexander Perez-Pons, Jorge Perdomo and Trae Hurley
51	<i>Epilepsy, A Cyberattack on Brains' Networked Control System</i> Saman Sargolzaei, Mercedes Cabrerizo, Arman Sargolzaei, Shirin Noei and Malek Adjouadi
53	<i>Toward Parametric Security Analysis of Machine Learning based Cyber Forensic Biometric Systems</i> Koosha Sadeghi, Ayan Banerjee and Sandeep K.S. Gupta,
54	<i>Automating ECU Identification for Vehicle Security</i> Michael Jaynes*, Ram Dantu and Roland Varriale II
55	<i>A Machine Learning Approach for Fault Detection in Automotive Cyber-Physical Systems</i> Arman Sargolzaei, Carl D Crane III, Alireza Abaspour and Shirin Noei
16	<i>An Oblivious Routing-based Power Flow Calculation Method For Loss Minimization of Smart Power Networks: A Theoretical Perspective</i> Kianoosh Boroojeni, M. Hadi Amini and S.S. Iyengar
	Workshop on Machine Learning Algorithms Systems and Applications (Dec. 20 at 1:50 pm)
8	<i>Multiview Centroid Based Fuzzy Classification of large data</i> Gaurav Tyagi, Nilesh Patel and Ishwar Sethi
30	<i>Local and Global Data Spread Based Index for Determining Number of Clusters in a Dataset</i> Romana Riyaz and M. Arif Wani
42	<i>Sequential Pattern Based Temporal Contour Representations for Content-Based Multimedia Timeline Analysis</i> Gang Ren, Joseph Johnson, Hyunhwan Lee and Mitsunori Ogihara
47	<i>Predicting Movie Box Office Profitability: A Neural Network Approach</i> Farhana Zulkernine and Travis Rhee
	Poster Session1 (Dec. 18 at 5:45 pm)
161	Area-Specific Crime Prediction Models

	<i>Mohammad Al Boni and Matthew Gerber</i>
260	<i>SEMI-SUPERVISED LEARNING WITH BIDIRECTIONAL ADAPTIVE PAIRWISE ENCODING</i> Jiangbo Yuan
164	<i>A New Approach of Matrix Factorization and Its Application in Recommender Systems</i> Hong Peng, Shuyi Hong, Linkai Luo, Qifeng Zhou and Xiaoqin Huang
39	<i>TIE: an algorithm for incrementally evolving taxonomy for text data</i> Rabia Irfan and Sharifullah Khan
66	<i>Realizing real-time deep learning-based super-resolution applications on Integrated GPUs</i> Sungye Kim and Preeti Bindu
70	<i>Sentiment Analysis of Restaurant on Yelp Reviews</i> Tri Doan and Jugal Kalita
71	<i>Classification of X-ray Galaxy Clusters with Morphological Feature and Tree SVM</i> Lei Wang, Zhixian Ma, Haiguang Xu and Jie Zhu
72	<i>Validation of a Federation of Collaborative Rational Agents for the Diagnosis Of Acute Coronary Syndromes in a Population with High Probability</i> John Sprockel, Juan José Diaztagle, Cristian Castillo, Alberto Llanos and Enrique Gonzalez
76	<i>Autonomous Biological Cell Injection Based on Vision and Motion Control</i> Yulong Zhang and Qingsong Xu
77	<i>Bee colony based worker reliability estimation algorithm in microtask crowdsourcing</i> Alireza Moayedikia, Kok-Leong Ong, Yee Ling Boo and William Yeoh
98	<i>Recognition of Slab Identification Numbers using a Deep Convolutional Neural Network</i> Sang Jun Lee and Sang Woo Kim
137	<i>Identifying IT purchases anomalies in the Brazilian Government Procurement System using Deep Learning</i> Silvio Domingos, Rommel Carvalho and Ricardo Carvalho
250	<i>Automatic Container Code Recognition via Spatial Transformer Networks and Connected Component Region Proposals</i> Ankit Verma, Monika Sharma, Ramya Hebbalaguppe, Ehtesham Hassan and Lovekesh Vig
159	<i>Regression with n to 1 by Expert Knowledge Elicitation</i> Marta Soare, Muhammad Ammad-Ud-Din and Samuel Kaski
62	<i>Cyberbullying Detection with a Pronunciation Based Convolutional Neural Network</i> Xiang Zhang, Jonathan Tong, Nishant Vishwamitra, Joseph Mazer, Robin Kowalski, Hongxin Hu, Feng Luo, Elizabeth Whittake, Jamie Macbeth and Edward Dillon
34	<i>Automatic Object Detection using DBSCAN for Counting Intoxicated Flies in the FLORIDA Assay</i> Christian Bodenstern, Markus Götze, Annika Jansen, Henrike Scholz and Morris Riedel
52	<i>Screen Unlocking by Spontaneous Flick Reactions with One-class Classification Approaches</i> Yoshitomo Matsubara, Haruhiko Nishimura, Toshiharu Samura, Hiroyuki Yoshimoto and Ryohei Tanimoto
78	<i>An Empirical Study on Machine Learning Models for Wind Power Predictions</i>

	Yiqian Liu and Huajie Zhang
103	<i>Improving Speed Independent Performance of Fault Diagnosis Systems through Feature Mapping and Normalization</i> Aparna S. Raghunath, K. T. Sreekumar, C. Santhosh Kumar and K. I. Ramachandran
104	<i>On the L1-norm Approximation of a Matrix by Another of Lower Rank</i> Nicholas Tsagkarakis, Panos Markopoulos and Dimitris Pados
112	<i>Relevance Vector Sampling for Reinforcement Learning in Continuous Action Space</i> Minwoo Lee and Charles Anderson
113	<i>Predicting Recovery of Credit Operations on a Brazilian Bank</i> Rogerio Lopes, Marcelo Ladeira, Rommel Carvalho and Ricardo Carvalho
149	<i>A New Feature for Cross-day Psychophysiological Workload Estimation</i> Ryan Hefron and Brett Borghetti
181	<i>Extracting Addresses From News Reports Using Conditional Random Fields</i> Xiaoqian Liu and Donald Brown
182	<i>An Active Learning Approach to Audio-to-Score Alignment Using Dynamic Time Warping</i> Ching-Hua Chuan
218	<i>Learning the Domain of Sparse Matrices</i> Suleyman Salin, Murat Manguoglu and H. Metin Aktulga
224	<i>Road Detection through Supervised Classification</i> Yasamin Alkhorshid, Kamelia Aryafar, Sven Bauer and Gerd Wanielik
225	<i>ADHD and ASD Classification Based on Emotion Recognition Data</i> Mahiye Uluyagmur-Ozturk, Ayse Rodopman Arman, Seval Sultan Yilmaz, Onur Tugce Poyraz Findik, Herdem Aslan Genc, Gresa Carkaxhiu-Bulut, M.Yanki Yazgan, Umut Teker, Zehra Cataltepe
14	<i>A Countable State PGM for Tracking Entity Movement</i> Tim Zajic
22	<i>Spontaneous Facial Expression Recognition: A Part Based Approach</i> Nazil Perveen and Krishna Mohan Chalavadi
84	<i>A Prediction Modelling and Pattern Detection Approach for the First Episode Psychosis Associated to Cannabis Use</i> Wajdi Alghamdi, Daniel Stamate, Katherine Vang, Daniel Stahl, Diego Quattrone, Marco Colizzi, Giada Tripoli, Robin M Murray and Marta Di Forti
91	<i>Time Series Classification Using Time Warping Invariant Echo State Networks</i> Pattreeya Tanisaro and Gunther Heidemann
171	<i>Towards Deep Learning Invariant Pedestrian Detection by Data Enrichment</i> Cristina N. Vasconcelos, Aline Paes and Anselmo Montenegro
185	<i>A Nonnegative Tensor Factorization Approach for Three-Dimensional Binary Wafer-Test Data</i> Thomas Siegert, Reinhard Schachtner, Gerhard Pöppel and Elmar Lang
51	<i>Using Temporal discovery and Data-driven Journey-maps to Predict Customer Satisfaction</i>

	Glenn Fung, Joe Bockhorst, Sukrat Gupta, Maleeha Qazi and Mingju Sun
64	<i>Uncovering the Landscape of Fraud and Spam in the Telephony Channel</i> Aude Marzuoli, Hassan Kingravi, David Dewey and Robert Pienta
152	<i>Premature ventricular contraction beat detection with deep neural networks</i> Tae Joon Jun, Hyun Ji Park, Nguyen Hoang Minh, Daeyoung Kim and Young-Hak Kim
153	<i>Preference Aware Recommendation Based on Categorical Information</i> Zhiwei Rao, Jiangchao Yao, Ya Zhang and Rui Zhang
176	<i>Denoising high resolution multispectral images using deep learning approach</i> Utkarsh Ojha and Ankur Garg
204	<i>Ensembling Sparse Representation Classifiers through Layers of Support Vector Machines</i> Sudarshan Babu and Vikaasa Ramdas
Poster Session2 (Dec. 19 at 5:00 pm)	
205	<i>Relational Synthesis of Text and Numeric Data for Anomaly Detection on Computing System Logs</i> Elisabeth Baseman, Sean Blanchard, Zongze Li and Song Fu
23	<i>Visual Big Data Analytics for Traffic Monitoring in Smart City</i> Dinesh Singh, Vishnu C., Nazil Perveen and C. Krishna Mohan
32	<i>Revealing Fundamental Physics from the Daya Bay Neutrino Experiment using Deep Neural Networks</i> Evan Racah and Wahid Bhimji
58	<i>Author Identification using Deep Learning</i> Ahmed Mohsen, Nagwa El-Makky and Nagia Ghanem
85	<i>Water Fixture Identification in Smart Housing: A Domain Knowledge Based Case Study</i> Yan Gao, Daqing Hou, Natasha Kholgade Banerjee and Sean Banerjee
155	<i>Parallel Text Identification Using Lexical and Corpus Features for the English-Maori Language Pair</i> Mahsa Mohaghegh and Abdolhossein Sarrafzadeh
240	<i>Practical Techniques For Using Neural Networks To Estimate State From Images</i> Stephen Ashmore and Michael Gashler
256	<i>Faster Gated Recurrent Units via Conditional Computation</i> Andrew Davis and Itamar Arel
19	<i>Relevance Vector Machines with Uncertainty Measure for Seismic Bayesian Compressive Sensing and Survey Design</i> Georgios Pilikos and Anita Faul
47	<i>Improving the State Space Representation through Association Rules</i> Valquiria Duarte and Rita Julia
56	<i>A Statistical Learning Method to Fast Generalised Rule Induction Directly from Raw Measurements</i> Thien Le, Frederic Stahl, Mohamed Medhat Gaber and Chris Wrench
177	<i>Neural Network Conditional Random Fields for Self-Paced Brain Computer Interfaces</i>

	Hossein Bashashati, Rabab K. Ward and Ali Bashashati
245	<i>Using Classification in the Preprocessing Step on Wi-Fi Data as an Enabler of Physical Analytics</i> M. Hossein Sarshar and Stan Matwin
79	<i>Air Quality Prediction Based on Spatio-Temporal Extreme Learning Machine</i> Bo Liu
105	<i>Deep Learning Anomaly Detection as Support Fraud Investigation in Brazilian Exports and Anti-Money Laundering</i> Eberth L. Paula, Rommel N. Carvalho, Thiago Marzagão and Marcelo Ladeira
108	<i>Linear Discriminant Analysis for Large-Scale data : Application on Text and Image data</i> Nassara Elhadji Ille Gado, Edith Grall-Maes and Malika Kharouf
146	<i>Bayesian network classification: Application to Epilepsy type prediction using PET scan data</i> Kamel Jebreen and Badih Ghattas
203	<i>Fast Nearest Neighbor Search With Transformed Residual Quantization</i> Jiangbo Yuan and Xiuwen Liu
255	<i>A Supervised Learning Framework for Arbitrary Lagrangian-Eulerian Simulations</i> Ming Jiang, Brian Gallagher, Joshua Kallman and Daniel Laney
120	<i>Nonlinear Dimensionality Reduction by Unit Ball Embedding (UBE) and its Application to Image Clustering</i> Behrouz Haji Soleimani and Stan Matwin
192	<i>Basic investigation on a robust and practical plant diagnostic system</i> Erika Fujita, Yusuke Kawasaki, Hiroyuki Uga, Satoshi Kagiwada and Hitoshi Iyatomi
200	<i>Combining Analytical and Holistic Strategies for Handwriting Recognition</i> Hesham Iraqi, Sherif Abdelazeem and Mohsen Rashwan
244	<i>GAUSSIAN PROCESSES FOR OBJECT DETECTION IN HIGH RESOLUTION REMOTE SENSING IMAGES</i> Yilong Liang, Sildomar Monteiro and Eli Saber
247	<i>Managing Constraints and Preferences for Winner Determination in Multi-Attribute Reverse Auctions</i> Malek Mouhoub and Farnaz Ghavamifar
18	<i>Freight Vehicle Travel Time Prediction Using Gradient Boosting Regression Tree</i> Xia Li and Ruibin Bai
96	<i>Using Latent Variable Autoregression to Monitor the Health of Individuals with Congestive Heart Failure</i> Robert Fisher, Asim Smailagic, Reid Simmons and Kimitake Mizobe
97	<i>A Novel Approach to Big Data Veracity using Crowdsourcing Techniques and Bayesian Predictors</i> Bhoomika Agarwal, Abhiram Ravikumar and Snehanshu Saha
99	<i>Comparing Machine Learning Approaches for Semantic Clone Detection Using Novel Features</i> Abdullah Sheneamer and Jugal Kalita
101	<i>Error Detection of Ocean Depth Series Data with Area Partitioning and Using Sliding Window</i> Shogo Hayashi, Satoshi Ono, Shigeki Hosoda, Masayuki Numao and Ken-Ichi Fukui
116	<i>Short-Term Urban Rail Passenger Flow Forecasting: a Dynamic Bayesian Network Approach</i>

	Jérémy Roos, Stéphane Bonnevey and Gérald Gavin
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