

## Workshop Chairs

### Ali Bou Nassif

Department of Electrical and Computer Engineering  
University of Western Ontario, Canada  
abounas@uwo.ca

### Mohammad Azzeh

Department of Software Engineering  
Applied Science University, Jordan  
m.y.azzeh@asu.edu.jo

### Shadi Banitaan

Department of Computer Science  
University of Detroit Mercy, USA  
banitash@udmercy.edu

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## 2014 Workshop on Machine Learning For Predictive Models (MLPM 2014)

at the 13<sup>th</sup> International Conference On Machine Learning and Applications  
(ICMLA 2014) December 3-6, 2014 – Detroit, Michigan, U.S.A

<http://www.icmla-conference.org/icmla14/>

The MLPM 2014 workshop provides an excellent international forum for sharing knowledge and results in theory, methodology and applications of Machine Learning for developing predictive models for various IT related problems, targeting the provision of alternative, interdisciplinary approaches for tackling problems found in various IT disciplines. Machine Learning models are efficient for handling complex prediction models due to their outstanding performance in handling large scale datasets with uniform characteristics and noisy data. Examples of MLPM domains include health care, cyber security, education, credit card fraud detection, social media, sales forecasting, stock market forecasting, cloud computing, software measurement, quality and defect prediction, cost and effort estimation, software reuse, weather prediction, etc.

The aim of this workshop is to obtain a good perspective into the current state of practice of Machine Learning to address various predictive problems. Some topics relevant to this session include, but are not limited to:

Clustering and Classification	<i>applied to</i>	Health Care Applications
Decision Support		Education
Support Vector Machine		Cyber Security
Time Series		Civil Engineering
Decision Trees		Software Process and Performance
Fuzzy Logic & Systems		Software Cost Estimation
Probabilistic Reasoning		Software Reliability
Lazy Learning		Software Risk Management
Recommender Systems		Software Quality and Testing
Expert Systems		Cloud Computing
Artificial Neural Networks		Social Media
Evolutionary Algorithms		Business Applications
Ranking Algorithms		Sale Forecasting
Cognitive Processes		Stock Market Forecasting
Evolutionary Computing		Weather Predictions
Swarm Intelligence		Bio-Medical Applications
Artificial Immune Systems		Big data Applications
Markov Model		Intelligent Traffic Management
Chaos Theory		Image Processing
Multi-Valued Logic		E-Government
Ensemble Techniques		Mechanical Engineering
Hybrid Intelligent Models		Chemical Engineering
Reasoning Models	Electrical Engineering	

Researchers are encouraged to submit their contributions that have direct impact or high dependence on practical issues encountered in real-world environments. Industrial- and market-oriented research papers are also highly encouraged. To this end, MLPM's Program Committee consists of members not only from academic/research institutions but also from the industry, and these members will assist in the review process in cases of industrial and market-related papers.

### Submission & Publication:

Accepted papers will be published in IEEE Xplore (IEEE Digital Library).

Registration is required for all participants. To be published in the proceedings, every accepted paper MUST have at least one registered author at the full rate and must be presented at the conference. Please visit the main website of the conference for more information.

### Special Issue:

Authors of selected papers of MLPM 2014 are invited to extend their work and submit to a journal paper in a special issue "Predictive Analytics Using Machine Learning" to be appeared in Neural Computing and Applications Journal (Springer) <http://goo.gl/8rDilj>.

### Important Dates

Paper submission: August 24, 2014

Author Notification: September 15, 2014

Camera-ready: October 1, 2014