

**The 15<sup>th</sup> IEEE International Conference on Machine Learning and Applications  
(IEEE ICMLA '16), Anaheim, USA  
18-20 December 2016  
[www.icmla-conference.org/icmla16](http://www.icmla-conference.org/icmla16)**

**Special Session on  
Machine Learning for Predictive Models in Engineering Applications  
(MLPMEA 2016)**

**AIMS AND SCOPE**

The MLPMEA 2016 special session provides an excellent international forum for sharing knowledge and results in theory, methodology and applications of Machine Learning for developing predictive models for different engineering applications. 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 MLPMEA 2016 topics of interest include building predictive models using Machine Learning to solve specific engineering problems such as regression and classification problems.

The aim of this work 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:

- ❖ Biomedical image analysis/processing
- ❖ Clustering
- ❖ Decision Support
- ❖ Support Vector Machine
- ❖ Time Series
- ❖ Decision Trees
- ❖ Fuzzy Logic & Systems
- ❖ Probabilistic Reasoning
- ❖ Lazy Learning
- ❖ Classification
- ❖ Recommender Systems
- ❖ Expert Systems
- ❖ Artificial Neural Networks
- ❖ Evolutionary Algorithms

- ❖ Ranking Algorithms
- ❖ Cognitive Processes
- ❖ Evolutionary Computing
- ❖ Swarm Intelligence
- ❖ Artificial Immune Systems
- ❖ Markov Model
- ❖ Chaos Theory
- ❖ Multi-Valued Logic
- ❖ Ensemble Techniques
- ❖ Hybrid Intelligent Models
- ❖ Reasoning Models

***Applied to***

- ❖ Nuclear Engineering
- ❖ Sustainable and Renewable Energy
- ❖ Software Engineering
- ❖ Biomedical Engineering
- ❖ Mechanical Engineering
- ❖ Civil Engineering
- ❖ Electrical Engineering
- ❖ Computer Engineering
- ❖ Chemical Engineering
- ❖ Industrial Engineering
- ❖ Environmental Engineering

Papers should be submitted for this special session at the regular paper submission website (<http://www.icmla-conference.org/icmla16/>). Papers should not exceed a maximum of 6 pages (including abstract, body, tables, figures, and references), and should be submitted as a pdf in 2-column IEEE format. Detailed instructions for submitting the papers are provided on the conference at home page.

## **Special Session Chairs**

Ali Bou Nassif  
Department of Electrical and Computer Engineering  
University of Sharjah  
anassif@sharjah.ac.ae

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

## **Technical Program Committee (Tentative)**

Abed Al Raouf Bsoul, Yarmouk University, Jordan  
Ali Bou Nassif, University of Sharjah, UAE  
Anna Leontjeva, University of Tartu, Estonia  
Cagatay Catal, Istanbul Kultur University, Turkey  
Cuauhtemoc Lopez-Martin, Universidad De Guadalajara, Mexico  
Danny Ho, NFA Estimation Inc., Canada  
Efi Papatheocharous, SICS, Sweden  
Fadi Salo, University of Western Ontario, Canada  
Hui Li, Zhejiang Normal University, China  
Leandro Minku, The University of Birmingham, UK  
Lefteris Angelis, Aristotle University of Thessaloniki, Greece  
Lian Liu, University of Kentucky, USA  
Lukasz Radlinski, West Pomeranian University of Technology Szczecin, Poland  
Mamdouh Alenezi, Prince Sultan University, Saudi Arabia  
Manar Abu Taleb, University of Sharjah, UAE  
Mohammad Azzeh, Applied Science University, Jordan  
Mohammad Hamdaqa, University of Waterloo, Canada  
MohammadNoor Injadat, University of Western Ontario, Canada  
Monagi Alkinani, University of Western Ontario, Canada  
Muhammad Rushdi, Cairo University, Egypt  
Nikolaos Mittas, Aristotle University of Thessaloniki, Greece  
Rushdi Shams, University of Western Ontario, Canada  
Rushed Kanawati, University Paris Nord, France  
S Vinitha Sree, Cyrcadia Health, Reno, Nevada, USA  
Shadi Banitaan, University of Detroit Mercy, USA  
Sotiris Kotsiantis, University of Patras, Greece  
Syed Nadeem Ahsan, KINPOE/KNPC, Pakistan  
Zaher Alaghbari, University of Sharjah, UAE  
Zahra Karimi, University of Stuttgart, Germany

**Important Dates:**

Paper Submission Deadline **August 6<sup>th</sup>, 2016**  
Notification of Acceptance **September 7<sup>th</sup>, 2016**  
Camera-Read Papers **October 1<sup>st</sup>, 2016**

**If you have any question about this session, please do not hesitate to ask your question to [anassif@sharjah.ac.ae](mailto:anassif@sharjah.ac.ae).**