

**The 17<sup>th</sup> IEEE International Conference on Machine Learning and Applications  
(ICMLA-2018)**

**Special Session: Machine Learning for Predictive Models in Engineering Applications  
(MLPMEA 2018)**

**December 17-20, 2018, Orlando, Florida, USA**

**[www.icmla-conference.org/icmla18](http://www.icmla-conference.org/icmla18)**

**Aim**

The MLPMEA 2018 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 2018 topics of interest include building predictive models using Machine Learning to solve specific engineering problems such as regression and classification problems.

**Scope**

The aim of this special session 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

### **Submission Guidelines and Instructions**

Papers submitted for reviewing should conform to IEEE specifications. Manuscript templates can be downloaded from [IEEE website](#). The maximum length of papers is 8 pages. All the papers will go through double-blind peer review process. Authors' names and affiliations should not appear in the submitted paper. Authors' prior work should be cited in the third person. Authors should also avoid revealing their identities and/or institutions in the text, figures, links, etc.

Papers must be submitted via the [CTM System](#) by selecting the track "Special Session on Machine Learning for Predictive Models in Engineering Applications". All accepted papers must be presented by one of the authors, who must register. Detailed instructions for submitting papers can be found at [How to Submit](#).

### **Paper Publication:**

Accepted papers will be published in the ICMLA 2018 conference proceedings (published by IEEE). A selected number of accepted papers will be invited for possible inclusion, in an expanded and revised form, in some journal special issues.

### **Important Dates:**

Submission Deadline: September 7, 2018

Notification of Acceptance: October 7, 2018

Camera-ready papers & Pre-Registration: October 17, 2018

### **Special Session Organizers**

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 Electrical and Computer Engineering

University of Detroit Mercy, USA

banitash@udmercy.edu

**Program Committee:**

Ahmad Al-Taani, Yarmouk University, Jordan  
Arman Sargolzaei, Florida Polytechnic University, USA  
Ali Bou Nassif, University of Sharjah, UAE  
Ali Idri, Mohamed V University, Morocco  
Arman Sargolzaei, Florida International University, USA  
Cagatay Catal, Istanbul Kultur University, Turkey  
Cuauhtemoc Lopez-Martin, Universidad De Guadalajara, Mexico  
Danny Ho, NFA Estimation Inc., Canada  
Fadi Salo, University of Western Ontario, Canada  
Hui Li, Zhejiang Normal University, China  
Jasmin Ramadani, University of Stuttgart, Germany  
Khaled Nahar, Yarmouk University, Jordan  
Lian Liu, University of Kentucky, USA  
Lukasz Radlinski, West Pomeranian University of Technology Szczecin, Poland  
Mahmoud Elmezain, Tanta University, Egypt  
Manar Abu Taleb, University of Sharjah, UAE  
Mohammad Hamdaqa, University of Waterloo, Canada  
Mohammad Akour, Yarmouk University, Jordan  
Mohammad Azzeh, Applied Science University, Jordan  
MohammadNoor Injadat, University of Western Ontario, Canada  
Muhammad Rushdi, Cairo University, Egypt  
Raed Seetan, Slippery Rock University, USA  
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  
Tolga Ayav, Izmir Yuksek Teknoloji Enstitusu, Turkey  
Vahid Rafe, Arak University, Iran  
Vignesh Sundaresh, RGM Advisors, USA  
Xuan Zhao, Cylance, USA