Springer

Neural Computing and Applications

Special Issue on

Predictive Analytics Using Machine Learning

Predictive analytics is concerned with the prediction of future trends and outcomes. The approaches used to conduct predictive analytics can be classified into machine learning techniques and regression techniques. Machine learning techniques have become increasingly popular in conducting predictive analytics due to their outstanding performance in handling large scale datasets with uniform characteristics and noisy data. Innovative predictive models have been applied successfully in several domains such as health care, cyber security, education, credit card fraud detection, social media, cloud computing, software measurement, quality and defect prediction, cost and effort estimation and software reuse.

The aim of this special issue is to invite authors of selected papers in the 2014 Workshop on Machine Learning for Predictive Models (http://www.icmla-conference.org/icmla14/w03.pdf) to extend their work and submit to this special issue. Moreover, this special issue is open for external authors to submit their original work in this area. It is envisioned to obtain a good perspective into the current state of practice of Machine Learning techniques to address various predictive problems. Topics relevant to this special issue include, but are not limited to:

Clustering and Classification		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	*applied to*	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

Please forward your inquiries to Dr. Ali Bou Nassif (abounas@uwo.ca).

Important Dates

Submission deadline: **February 28, 2015**
Author notification: **May 30, 2015**
Submission deadline for revisions: **July 30, 2015**
Author notification (final): **September 15, 2015**

Submission Guidelines

- Submissions should be prepared according to the authors instructions available at:
  http://www.springer.com/computer/ai/journal/521
- All manuscripts should be submitted through the online manuscript submission system of Neural Computing and Application at: **http://www.editorialmanager.com/nca/**
- Manuscripts based on previously published conference papers must contain at least 30% substantive new material

Guest Editors

Ali Bou Nassif
University of Western Ontario, Canada
abounas@uwo.ca

Mohammad Azzeh
Applied Science University, Jordan
m.y.azzeh@asu.edu.jo

Shadi Banitaan
University of Detroit Mercy, USA
banitash@udmercy.edu

Daniel Neagu
University of Bradford, UK
D.Neagu@bradford.ac.uk

Springer

http://www.springer.com/computer/ai/journal/521

Springer