

# Journal of Intelligent & Fuzzy Systems

(<http://www.iospress.nl/journal/journal-of-intelligent-fuzzy-systems/>)

## Applied Machine Learning & Management of Volatility, Uncertainty, Complexity and Ambiguity (V.U.C.A)

### Guest Editor

Prof. Srikanta Patnaik,  
Department of Computer Science and Engineering,  
SOA University, Bhubaneswar India  
Email: [patnaik\\_srikanta@yahoo.co.in](mailto:patnaik_srikanta@yahoo.co.in)

Machine Learning (ML) is a superset of techniques which are being used for solving generic problems such as classification, regression, recognition and prediction. It is a branch of artificial intelligence, gives machines the ability to learn by their own without human feedback. Recently, ML has gone one step ahead to address the issues such as Volatility, Uncertainty, Complexity and Ambiguity of any business or real world problem.

This special issue shall cover various Machine Learning techniques applied to the problems associated with the risk factors, such as Volatility (rapid rise and fall in the responses), Uncertainty (unpredictable situations/ conditions), Complexity (difficulties in problem understanding) and Ambiguity (confusion in situations/ surrounding conditions)

The following are the topics to be covered but not limited to:

**Machine Learning Problems:** Classification, Regression, Recognition, and Prediction;

**Machine Learning Methods:** Supervised and unsupervised learning, decision and regression trees, probabilistic networks, inductive logic programming, ensemble methods, clustering, Reinforcement learning.

**Soft Computing:** Fuzzy, Neural computing, Soft Computing, Expert Systems, GPU Computing for Machine Learning, Advanced Soft Computing.

**Application of ML Techniques for V.U.C.A. Management:** Application of Linear Regression, Application of Logistic Regression, Application of Decision Tree, Application of Random Forest, Roll of SVM, Application of Naïve Bayes, Application of kNN (k- Nearest Neighbors), Roll of k-Means.

The submissions may be of any form out of the following:

- New Machine Learning algorithms with empirical, theoretical justification
- Experimental and/or theoretical studies yielding new insight into the design and behavior of business or industrial application;
- New learning tasks in the context of industrial or business applications and of the methods for assessing performance on those tasks;
- Development of new analytical frameworks that advance theoretical studies of practical learning methods;

### Notes for Prospective Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. (N.B. Conference papers may only be submitted if the paper has been completely re-written and if appropriate written permissions have been obtained from any copyright holders of the original paper). All papers are refereed through a peer review process.

**All papers must be submitted online at <https://easychair.org/cfp/AML-VUCA-2020>**

### Abstract/ Index in

Academic Source Complete, ACM Digital Library, Business Source Complete, Cambridge Scientific Abstracts, Compendex, Computer Science Index, CSA Illumina, EBSCO databases, Google Scholar, Inspec IET, Mathematical Reviews Microsoft Academic Search, Science & Technology Collection, Scopus, Ulrich's Periodicals Directory, Web of Science: Current Contents/Engineering, Computing and Technology, Web of Science: Journal Citation Reports/Science Edition, Web of Science: Science Citation Index-Expanded (SciSearch®), Zentralblatt MATH

### Important Dates:

Submission Deadline: 31<sup>st</sup> January, 2020

Acceptance/Rejection Notifications: 28th February, 2020

Final papers Due: 31<sup>st</sup> March, 2020