

# Call For Papers to MCSoc 2017 Special Session

*“Data Analytics and Machine Learning on Multicore, GPU, and Big Data Center”*

## **Aim and Scope**

Recently, wonderful applications of artificial intelligence (AI) such as AlphaGo and IBM Watson have shown their superior ability than the one of human in several important business domains. Technology of machine learning (ML), data mining (DM) and reasoning and semantic technology of AI is opening the fourth industrial revolution. One important key issues to enable the current AI to higher level is scaling up ML including deep learning, DM, reasoning on knowledge description logic, and several analysis methods for large datasets. Many scaling-up algorithms have been suggested for ML, DM, and data analysis on multi-core, GPU, and distributed data centers such as Hadoop and Spark, etc, and have showed greatly improved performance.

According to the current passionate situation, this special session is inviting scholars from mathematics, computer science, engineering and seeking papers both theoretical and applied enlightening ideas/results, and applications on the general area of analytics/ML/DM/Reasoning-related principle and computational methods, for large dimensional dataset and related applications.

## **Topics of Interest**

The topics are relevant to but not limited to

- Machine Learning Algorithms, Methods, and Applications
- Supervised/Unsupervised Deep Learning Algorithms, Architectures, and Applications
- Deep Learning for Pattern Recognition, Text and Natural Language Processing, Bio-Informatics, Healthcare, other application domains
- Deep Reinforcement Learning
- Dimensionality Reduction and Feature learning
- Data Mining Methods and Algorithms
- Data Mining Applications in Science, Engineering, Healthcare and Medicine
- Data Mining Tools and Software
- Data Warehousing
- Big Data Mining and Applications Using Multicore, GPU and Big Data Center
- Distributed Big Data Centers and Cloud computing
- New Visualization Techniques
- Social Network Analysis
- Data Mining Analysis
- Business Analytics
- Semantics and Reasoning for Big Data Science

## **Submission Process**

Authors are encouraged to submit original and high-quality work that is not under

consideration by or already appears in, any journals or publication media. Potential authors can follow submission policy of IEEE MCSoc 2017 (<http://mcsoc-forum.org/2017/>). Specific instructions can be found on the MCSoc 2017 website (<http://mcsoc-forum.org/2017/submission/>). Manuscripts should be submitted to: <https://edas.info/N23121>

**Important Dates**

- Paper submission: April 15, 2017
- Acceptance notification: June 23, 2017
- Camera ready paper: July 14, 2017
- Symposium: September 18-20, 2017

**Questions:** E-mail to [paikic@u-aizu.ac.jp](mailto:paikic@u-aizu.ac.jp)