Call for Papers for Special Session on
" Advancement on Parallel, Distributed and High Performance Computing for Artificial Intelligence and Machine learning "

Session Chair
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Theme of the Special Session

Artificial Intelligence and Machine Learning are the latest areas of research in current years. Researches going in Academia as well as in Industry to strengthen the field of AI and Machine learning. A huge amount of research scope in this field, for example, deep learning has achieved superhuman performance in image classification. Artificial Intelligence and Machine Learning have been used to game playing like Chess, Go, Atari and Jeopardy very successfully. Artificial Intelligence and Machine Learning is also being using in areas such as health care, natural resource management and advertisement.

Artificial Intelligence and Machine Learning technologies and applications require high computational power with time efficient manner. Clusters of computers and accelerators (e.g. GPUs) are routinely used to train and run models, both in research and production. On the other hand, ML and AI have also become a "killer application" for HPC. For example, tailored computer architecture has been devised and new parallel programming frameworks developed to accelerate AI/ML models. The objective of this session is to bring together the High Performance Computing and Artificial Intelligence/Machine Learning to provide the high-end solutions for Industry. HPC will provide be the effective solution for AI applications to facilitate the research in academia and fulfillment of Industry requirements.

Topics of Interest: We invite original (un-published) research contributions based on the above mentioned theme including following topics **but not limited to**:

- Machine learning & Statistical models
- Deep learning
- Artificial Intelligence
- Parallel and distributed computing applications using ML.
- High Performance learning applications
- Machine learning applied to HPC
- Performance measurements & Benchmarking
- Analysis of Machine Learning models
- Hardware acceleration for ML and AI
- Parallel ML and AI models
- HPC infrastructure and resource management for ML

Important Dates

Receiving full paper	November 30, 2018
Email notification of paper acceptance	December 05, 2018
Last date for receiving camera-ready paper	December 15, 2018
Last date of registration (Early Bird)	December 15, 2018
Last date of registration (With Late	December 31, 2018

Program Committee

- Dr. Mahendra Singh Aswal GKV Haridwar
- Dr. Sharad Saxena Thapar University, Patiala
- Mr. Akhilesh Srivastava ABES Ghaziabad
- Dr. Raman Chadha GGC Chandigarh
- Dr. Hitesh Kumar Sharma UPES Dehradun
- Dr. Abhineet Anand Galgotia University

Paper Submission Process

- While submitting your paper on easychair.org you are requested to select "**Advancement on Parallel, Distributed and High Performance Computing for Artificial Intelligence and Machine learning**" as topic.
- Submit your paper (in pdf format) at **http://www.amity.edu/aiit/aicai2019/#about** with a copy of the paper to **patnijack@gmail.com** with "**Advancement on Parallel, Distributed and High Performance Computing for Artificial Intelligence and Machine learning**" mentioned in the subject line.