

The 5th International Workshop on Parallel and Distributed Computing for Large Scale Machine Learning and Big Data Analytics

May 27, 2016

<http://parlearning.ecs.fullerton.edu>



In Conjunction with

30th IEEE International Parallel & Distributed Processing Symposium
May 23-27, 2016
Chicago Hyatt Regency
Chicago, Illinois USA



CALL FOR PAPERS

Scaling up machine-learning (ML), data mining (DM) and reasoning algorithms from Artificial Intelligence (AI) for massive datasets is a major technical challenge in the times of "Big Data". The past ten years has seen the rise of multi-core and GPU based computing. In distributed computing, several frameworks such as Mahout, GraphLab and Spark continue to appear to facilitate scaling up ML/DM/AI algorithms using higher levels of abstraction. We invite novel works that advance the trio-fields of ML/DM/AI through development of scalable algorithms or computing frameworks. Ideal submissions would be characterized as scaling up X on Y , where potential choices for X and Y are provided below.

Scaling up

- recommender systems,
- gradient descent algorithms
- deep learning
- sampling/sketching techniques
- clustering (agglomerative techniques, graph clustering, clustering heterogeneous data)
- classification (SVM and other classifiers), SVD
- probabilistic inference (bayesian networks)
- logical reasoning
- graph algorithms and graph mining

On

- Parallel architectures/frameworks (OpenMP, OpenCL, Intel TBB)
- Distributed systems/frameworks (GraphLab, Hadoop, MPI, Spark etc.)

IMPORTANT DATES

- Paper submission: January 15, 2016 AoE
- Notification: February 12, 2016
- Camera Ready: February 26, 2016

PAPER GUIDELINES

Submitted manuscripts should be **6-10** single-spaced double-column pages using 10-point size font on 8.5x11 inch pages (IEEE conference style), including figures, tables, and references. Format requirements are posted on the IEEE IPDPS web page (www.ipdps.org).

Accepted papers with sufficient extensions will be recommended for publication in a journal (to be announced), subject to review by the journal editorial board.

TRAVEL AWARDS

Students with accepted papers can apply for a travel award. Please find details at www.ipdps.org.

