

ParLearning 2012

Workshop on Parallel and Distributed Computing for
Machine Learning and Inference Problems

Shanghai, China, May 25 2012

https://researcher.ibm.com/researcher/view_project.php?id=2591



in conjunction with
IPDPS 2012

This workshop is one of the major meetings for bringing together researchers in **High Performance Computing** and **Artificial Intelligence** to discuss state-of-the-art algorithms, identify critical applications that benefit from parallelization, prospect research areas that require most convergence and assess the impact on broader technical landscape. This is also a great opportunity for researchers worldwide for collaborating with Chinese Academia and Industry.

Authors are invited to submit manuscripts of original unpublished research that demonstrate a strong interplay between a parallel/distributed computing technique and a learning/inference application, such as *algorithm design* and *libraries/framework* development on **multicore/manycore architectures, GPUs, cluster, supercomputers, cloud computing** that target applications including but not limited to:

- Large scale inference using parallel TPIC models, clustering and SVM.
- Parallel natural language processing (NLP).
- Semantic inference for disambiguation of content on web or social media
- Discovering and searching for patterns in audio or video content
- On-line analytics for streaming text and multimedia content
- Comparison of various HPC infrastructures for learning
- Large scale learning applications in search engine and social networks
- Distributed machine learning tools (e.g., Mahout and IBM parallel tool)
- Real-time solutions for learning algorithms on parallel platforms

Manuscripts must be submitted on **EDAS** (<http://edas.info/N11575>) by **Dec. 19, 2011**, not exceeding **10 single-spaced double-column pages 10-point size font on 8.5x11 inch pages**. Accepted papers will be notified by **Feb. 1, 2012** and will be included in the *Proceedings of the IEEE International Symposium on Parallel & Distributed Processing, Workshops and PhD Forum (IPDPSW)*, indexed in EI and possibly in SCI.

General Co-chairs:

Sutanay Choudhury, Pacific Northwest Natl. Lab, USA
George Chin, Pacific Northwest National Lab., USA
Yinglong Xia, IBM T.J. Watson Research Center, USA

Local Chair:

Yihua Huang, Nanjing University, China

Keynote Speaker:

Haixun Wang, Microsoft Research, China

Program Co-chairs:

John Feo, Pacific Northwest National Lab, USA
Chandrika Kamath,
Lawrence Livermore National Lab, USA
Anshul Gupta,
IBM T.J. Watson Research Center, USA

Program Committee:

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