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Convention & Visitors Bureau

AISTATS*2011 Call for Papers

Fourteenth International Conference on Artificial Intelligence and Statistics

**April 11–13, 2011, Hyatt Regency Pier 66, Ft. Lauderdale, FL, USA
Colocated with the Learning Workshop**

AISTATS is an interdisciplinary gathering of researchers at the intersection of computer science, artificial intelligence, machine learning, statistics, and related areas. Since its inception in 1985, the primary goal of AISTATS has been to broaden research in these fields by promoting the exchange of ideas among them. We encourage the submission of all papers which are in keeping with this objective at www.aistats.org.

Papers will be selected via a rigorous double-blind peer-review process, including expanded author feedback. All accepted papers will be presented at the Conference as contributed talks or as posters, and will be treated equally in the Conference Proceedings. Rather than a single best paper, we will present awards for 5–10 notable papers. See aistats.org/reviewing.php for details.

Solicited topics include, but are not limited to:

- ▶ Bayesian models and estimation (graphical models, causality, Gaussian processes, approximate inference, ...)
- ▶ Non-Bayesian models and estimation (kernel methods, nonparametric models, statistical and computational learning theory, manifolds and embedding, sparsity and compressed sensing, ...)
- ▶ Classification, regression, density estimation, unsupervised and semi-supervised learning, clustering, topic models, ...
- ▶ Structured prediction, relational learning, logic and probability
- ▶ Reinforcement learning, planning, control
- ▶ Game theory, no-regret learning, multi-agent systems
- ▶ Algorithms and architectures for high-performance computation in AI and statistics
- ▶ Software for and applications of AI and statistics

For a more detailed list of keywords, see aistats.org/keywords.php.

Submissions will be considered if they are received by **November 1st, 2010**, 23:59 UTC. See aistats.org/submit.php for instructions.

Program Chairs: Geoff Gordon, Carnegie Mellon University, and David Dunson, Duke University