



# AI & Statistics 2013

## **AISTATS\*2013 Call for Papers**

### **Sixteenth International Conference on Artificial Intelligence and Statistics.**

**April 29–May 1, 2013, DoubleTree Paradise Valley Resort, Scottsdale, AZ.**

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 <http://www.cs.utexas.edu/~aistats/>.

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. Highlights of the review process this year:

- (a) There will be a primary and secondary member of the senior program committee in charge of a paper, with discussion triggers given the ratings and content of the reviews.
- (b) Following the lead of ICML 2012, reviewers will be assigned to a paper using multiple mechanisms so that there is no “single point of failure”: one by an automated mechanism, and one each by the primary and secondary members of the SPC.
- (c) Following the lead of AISTATS 2011, a select but non-trivial set of papers will be designated as “notable papers”. These will carry a preface in the proceedings by a member of the senior program committee, and will also be given greater visibility and discussion via social media.
- (d) We are also working with certain journals to facilitate transfer of reviews+reviewer-names for the notable papers, should the authors choose to submit extended journal versions.

We hope these changes motivate authors to submit their most innovative work at the intersection of statistics and artificial intelligence to the conference.

*Program Chairs: Carlos M. Carvalho and Pradeep Ravikumar, The University of Texas at Austin*

Solicited topics include, but are not limited to:

- ▶ Models and estimation: graphical models, causality, Gaussian processes, approximate inference, kernel methods, nonparametric models, statistical and computational learning theory, manifolds and embedding, sparsity and compressed sensing, etc...
- ▶ 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

Submissions will be considered if they are received by **November 15th, 2012**, 23:59 UTC. See the conference website <http://www.cs.utexas.edu/~aistats/> for instructions.

## **Co-located with the Learning Workshop**