

Curriculum Vitae

Bert Huang
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Summary

Ph. D. Candidate studying Machine Learning.

Research Interests

- Include probabilistic inference, combinatorial optimization, maximum entropy methods, hierarchical models, belief propagation

Education

- Doctor of Philosophy (PhD) in Computer Science. Columbia University, Fall 2006-Fall 2010 (Projected)
- Master of Philosophy (MPhil) in Computer Science. Columbia University, Fall 2006-Fall 2008
- Master of Science (MS) in Computer Science (Machine Learning Track). Columbia University, Fall 2004-Spring 2006
- Bachelor of Science (BS) in Computer Science. Brandeis University, Fall 2000-Spring 2004.
- Bachelor of Arts (BA) in Philosophy. Brandeis University, Fall 2000-Spring 2004.

Publications

Refereed Conference Papers

- Bert Huang and Ansaif Salleb-Aouissi. *Maximum Entropy Density Estimation with Incomplete Presence-Only Data*. In Proceedings of the Twelfth International Conference on Artificial Intelligence and Statistics, April 15th-18th, 2009, Clearwater Beach, Florida. Editors David van Dyk and Max Welling. Volume 5 of JMLR: W&CP 2009, pp 0-0. Poster presentation.
- Ansaif Salleb-Aouissi, Bert C. Huang, David L. Waltz: Vers des Machines Vecteurs Support "Actionnables" : Une Approche Fonde sur le Classement. EGC 2008: 285-296. Oral presentation (by first author). Best paper award.
- Bert Huang and Tony Jebara. *Loopy Belief Propagation for Bipartite Maximum Weight b-Matching*. In Proceedings of the Eleventh International Conference on Artificial Intelligence and Statistics, March 21-24, 2007, San Juan, Puerto Rico. Editors Marina Meila and Xiaotong Shen. Volume 2 of JMLR: W&CP 2007, pp 195-202. Oral presentation.

Refereed Workshop Papers

- Bert Huang and Tony Jebara. *Maximum Likelihood Graph Estimation with Degree Priors*. NIPS 2008 Workshop: Analyzing Graphs. Oral presentation.

Refereed Poster Abstracts

- Bert Huang and Tony Jebara. *Approximating the Permanent with Belief Propagation*. New York Academy of Sciences 2nd Annual Machine Learning Symposium 2008. Poster and abstract.
- Bert Huang and Ansaif Salieb-Aouissi. *Maximum Entropy Density Estimation with Incomplete Data*. New York Academy of Sciences 2nd Annual Machine Learning Symposium 2008. Poster and abstract.
- Bert Huang and Tony Jebara. *Maximum Weight b -Matching via Belief Propagation*. New York Academy of Sciences 1st Annual Machine Learning Symposium 2007. Poster and abstract.

Unrefereed Technical Reports

- Bert Huang and Tony Jebara. *Approximating the Permanent with Belief Propagation*. <http://arxiv.org/abs/0908.1769>

Patents

- T. Jebara and B. Huang. A distributed belief propagation algorithm for efficient and exact solutions of generalized matching problems and auctions, Provisional Patent Application. Assignee Name and Address: The Trustees of Columbia University in the City of New York, 2008.

Teaching

- COMS W3134: Data Structures in Java. Fall 2009. Instructor.
- COMS W3137: Data Structures and Algorithms. Spring 2009. Instructor.
- COMS W1003: Introduction to Computer Science and Programming in C. Fall 2008. Instructor.
- COMS W4771: Machine Learning. Spring 2007. Teaching Assistant.
- COMS W1003: Introduction to Computer Science and Programming in C. Spring 2006. Teaching Assistant.

Appointments

- Spring 2008-Present (Fall and Spring semesters). Preceptor; responsibilities include teaching one 1000 or 3000-level course (3 or 4 units) each semester. Computer Science Department, Columbia University.
- Summer 2006-Summer 2008. Summer 2009. Graduate Research Assistant at Center for Computational Learning Systems (CCLS). Columbia University. Consolidated Edison project. Conducted research on New York City electrical grid data analysis.
- Spring 2005-Summer 2006. Programmer for Columbia University Medical Center Motor Control Physiology Laboratory.

Awards

- Computer Science Service Award 2009