Call for Papers: ALT 2005

The 16th International Conference on Algorithmic Learning Theory

Marina Mandarin Hotel, Singapore, Republic of Singapore,

October 8 - 11, 2005

The 16th International Conference on Algorithmic Learning Theory (ALT 2005) will be held at the Marina Mandarin Hotel, Singapore, during October 8 - 11, 2005. The main objective of the conference is to provide an interdisciplinary forum for discussion of theoretical foundations of machine learning as well as their relevance to practical applications. The conference will be co-located with the 8th International Conference on Discovery Science (DS 2005).

Topics of Interest: We invite submissions to ALT 2005 in all areas related to algorithmic learning theory, and those that are aimed at bridging theory and practice. Topics of interest include (but are not limited to): *the design and analysis of learning algorithms, computational models of machine learning* (*e.g., on-line learning, learning via queries, inductive inference, statistical learning*), *specific algorithmic approaches* (*e.g., margin-based algorithms, MDL estimation, boosting*), *learning complex models* (*e.g., neural networks, Bayesian networks, logical formulae, grammars, instance-based models*), *machine discovery, and applications of machine learning to other fields* (*e.g., data mining, web mining, bioinformatics*).

Invited Talks. There will be several invited talks by prominent researchers in the field.

Submissions. Papers should be submitted electronically. Details are given at the ALT 2005 web-page. Alternatively, you may send nine hard copies to:

Hans Ulrich Simon
Fakultät für Mathematik
Ruhr-Universität Bochum
44780 Bochum, Germany

which must be received by the deadline given below.

Important Dates.

Submission deadline: May 20, 2005
Notification of acceptance: June 26, 2005
Camera ready due: July 20, 2005

Format. The submission should consist of a cover page with title, authors' names, postal and e-mail addresses, an approximately 200 word summary, and a body not longer than **ten** A4 or letter sized pages in twelve-point font. You may use appendices to include long but major proofs. If you submit hardcopies, double-sided printing is encouraged.

Policy. Each submitted paper will be reviewed by the members of the program committee and be judged on clarity, significance, and originality. Joint submissions to other conferences with published proceedings are not allowed. Papers that have appeared in journals or other conferences are not appropriate for ALT 2005.

Proceedings will be published as a volume in the Lecture Notes Series in Artificial Intelligence, Springer, and will be available at the conference.
Selected papers of ALT 2005 will be invited to a special issue of the journal *Theoretical Computer Science*.

E.M. Gold Award. One scholarship of 555€ will be awarded to a student author (please *mark student submissions* on the title page) of an excellent paper.

Conference Chair:

Sanjay Jain
National University of Singapore
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Program Committee Chairs:

Hans Ulrich Simon (Ruhr-Univ. Bochum, Germany)
Etsuji Tomita (Univ. of Electro-Communications Tokyo, Japan)

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For more information, please contact:

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Conference Homepage:

http://www-alg.ist.hokudai.ac.jp/~thomas/alt05.html