



# Call for Papers: Discovery Science 2003

## The 6th International Conference on Discovery Science

Hokkaido University, Sapporo, Japan

October 17–19, 2003

The 6th International Conference on Discovery Science (DS 2003) will be held at the Hokkaido University, Sapporo, Japan, during October 17–19, 2003. DS 2003 will be co-located with the 14th International Conference on Algorithmic Learning Theory. The two conferences will be held in parallel, and they will share their invited talks.

We are now encountered to a rapidly growing digital network society. Information available for each person is tremendously large and therefore is far beyond our capability for analyzing and understanding. A new generation of computational techniques and tools is required to support the extraction and the discovery of useful knowledge from the rapidly growing volumes of data. Raw data is rarely of direct benefit. Its true value is reflected by our ability to extract information useful for decision support or for exploration and understanding of the phenomena exhibited in the data source.

The main objective of DS 2003 is to provide an open forum for intensive discussions and interchange of new information among researchers working in the area of Discovery Science.

**Topics of interest:** We invite submissions from (but not limited to) the following areas :

*logic for/of knowledge discovery; knowledge discovery by inferences; abductive reasoning; heuristic search; constructive programming as discovery; knowledge discovery from texts and the Web; knowledge discovery from unstructured and multimedia data; knowledge discovery in databases; data mining; data and knowledge visualization; active mining; knowledge discovery in network environments; intelligent network agents; machine learning; statistical methods and neural networks for knowledge discovery; Bayesian networks; knowledge discovery and human interaction; human factors in knowledge discovery; philosophy and psychology of discovery; chance discovery; scientific discovery; application of knowledge discovery to natural and social sciences.*

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

**Types of submissions:** There are two types of submissions: long and short papers. For short papers, beside a short introduction at the conference, there is the opportunity to present the results in a special poster session.

**Submissions:** Submission consists of two parts. First, authors are requested to electronically submit title, type of submission (long or short paper), authors' names, postal and e-mail addresses, an approximately 200 word summary and keywords. Second, authors are requested to submit an electronic version of their papers.

Details are provided at the conference homepage.

If electronic submission is not possible, authors may also submit six hardcopies of their paper.

**Format:** Papers consist of a cover page and a body. The cover page contains title, type of submission, authors' names, postal and e-mail addresses, an approximately 200 word summary, and keywords. The body must be formatted according to the layout supplied by the Springer-Verlag for the Lecture Notes in Computer Science series.

For long papers, the body must not exceed twelve (12) pages. For short papers, the body must not exceed five (5) pages. Overlengthy submissions or submissions not following the layout may be rejected without review.

**Important Dates:** Papers must be received by **May 30, 2003**. Notification of acceptance will be emailed to the first (or designated) author by **July 10, 2003**. Camera-ready copy of accepted papers will be due **August 10, 2003**.

**Policy:** Each submitted paper will be reviewed by the members of the program committee supported by an international board of reviewers, and selected on the basis of its importance in Discovery Science from theoretical and/or practical viewpoints in addition to the originality and the clarity of presentation. Long papers may be accepted as short paper. Papers that have appeared in journals or other conferences are not appropriate for DS 2003.

**Proceedings:** The conference proceedings will be published as a volume of the Lecture Notes in AI series, Springer, and will be available at the conference. Papers will only be included if at least one author is registered for the conference.

**Conference Chair:**

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**Program Committee Chairs:**

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Akihiro Yamamoto (Hokkaido Univ., Japan)

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**Conference Homepage:**

[www.intellektik.informatik.tu-darmstadt.de/DS03/](http://www.intellektik.informatik.tu-darmstadt.de/DS03/)