

Preface

This volume contains the papers presented at the 6th International Conference on Discovery Science (DS 2003) held at Hokkaido University, Sapporo, Japan, during 17–19 October 2003.

The main objective of the discovery science (DS) conference series is to provide an open forum for intensive discussions and the exchange of new information among researchers working in the area of discovery science. It has become a good custom over the years that the DS conference is held in parallel with the International Conference on Algorithmic Learning Theory (ALT). This combination of ALT and DS allows for a comprehensive treatment of the whole range, from theoretical investigations to practical applications. Continuing the good tradition, DS 2003 was co-located with the 14th ALT conference (ALT 2003). The proceedings of ALT 2003 were published as a twin volume 2842 of the LNAI series.

The DS conference series has been supervised by the international steering committee chaired by Hiroshi Motoda (Osaka University, Japan). The other members are Alberto Apostolico (Univ. of Padova, Italy and Purdue University, USA), Setsuo Arikawa (Kyushu University, Japan), Achim Hoffmann (UNSW, Australia), Klaus P. Jantke (DFKI, Germany), Masahiko Sato (Kyoto University, Japan), Ayumi Shinohara (Kyushu University, Japan), Carl H. Smith (University of Maryland, USA), and Thomas Zeugmann (University of Lübeck, Germany).

We received 80 submissions, out of which 18 long and 29 short papers were selected by the program committee, based on clarity, significance, and originality, as well as on relevance to the field of discovery science. The DS 2003 conference had two paper categories, long and short papers. Long papers were presented as 25-minute talks, while short papers were presented as 5-minute talks accompanied by poster presentations. Due to the limited time of the conference, some long submissions could only be accepted as short papers. Some authors of those papers decided not to submit final versions or to just publish abstracts of their papers.

This volume consists of three parts. The first part contains the invited talks of ALT 2003 and DS 2003. These talks were given by Thomas Eiter (Technische Universität Wien, Austria), Genshiro Kitagawa (The Institute of Statistical Mathematics, Japan), Akihiko Takano (National Institute of Informatics, Japan), Naftali Tishby (The Hebrew University, Israel), and Thomas Zeugmann (University of Lübeck, Germany). Because the invited talks were shared by the DS 2003 and ALT 2003 conferences, this volume contains the full versions of Thomas Eiter's, Genshiro Kitagawa's, and Akihiko Takano's talks, as well as abstracts of the talks by the others. The second part of this volume contains the accepted long papers, and the third part contains the accepted short papers.

We would like to express our gratitude to our program committee members and their subreferees who did great jobs in reviewing and evaluating the submissions, and who made the final decisions through intensive discussions to ensure the high quality of the conference. Furthermore, we thank everyone who led this conference to a great success: the authors for submitting papers, the invited speakers for accepting our invitations and giving stimulating talks, the steering committee and the sponsors for their support, the ALT Chairpersons Klaus P. Jantke, Ricard Gavaldà, and Eiji Takimoto for their collaboration, and, last but not least, Makoto Haraguchi and Yoshiaki Okubo (both Hokkaido University, Japan) for their local arrangement of the twin conferences.

October 2003

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VIII Organization

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