Principles and Practice of Constraint Programming - CP 2000

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Preface

As computer science enters the new millennium, methods and languages for reasoning with constraints have come to play an important role, with both theoretical advances and practical applications. Constraints have emerged as the basis of a representational and computational paradigm that draws from many disciplines and can be brought to bear on many problem domains, including artificial intelligence, databases, and combinatorial optimization. The conference is concerned with all aspects of computing with constraints including algorithms, applications, environments, languages, models and systems.

The Sixth International Conference on Principles and Practice of Constraint Programming (CP2000) continues to provide an international forum for presenting and discussing state-of-the-art research and applications involving constraints. After a few annual workshops, CP’95 took place in Cassis, France; CP’96 in Cambridge, USA; CP’97 in Schloss Hagenberg, Austria; CP’98 in Pisa, Italy and CP’99 in Alexandria, USA. This year the conference is held in Singapore, from 18 through 21 September 2000.

This volume comprises the papers that were accepted for presentation at CP2000. From the 101 papers that were submitted, 31 papers were accepted for presentation in the plenary session and 13 papers were selected as posters and have a short version (five pages) in this volume. All papers were subjected to rigorous review three program committee members (or their designated reviewers) refereed each paper. Decisions were reached following discussions among reviewers and, in some instances, by e-mail consultation of the entire program committee. I believe the reader will find these articles to be of the highest quality, representing a significant contribution to the field.

Apart from the presentation of the technical papers and posters, we are very pleased to have three distinguished invited speakers: Alan Mackworth (University of British Columbia), David McAllester (AT&T Labs Research) and Alan Borning (University of Washington). The program included four tutorials presented by (1) George Gottlob and Francesco Scarello, (2) Thom Fruehwirth, (3) Michela Milano and (4) Joao Marques-Silva. The technical program was followed by five post-conference workshops on a variety of topics.

Last, but certainly not least, much is owed to the organizational skills of the CP2000 General Chairman Roland Yap. We are also indebted to Martin Henz, the Publicity Chair, and Toby Walsh, the Workshops and Tutorials Chair. Finally, I would like to thank Hong Zhao who was instrumental in setting up and running the web-based conference software and to Mario Espinoza for his dedicated help in assembling this volume.

Irvine, June 2000

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