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Hans L. Bodlaender (Ed.)

Graph-Theoretic Concepts in Computer Science

29th International Workshop, WG 2003
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Revised Papers

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Preface

The 29th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2003) was held in the Mennorode conference Center in Elspeet, The Netherlands. The workshop was organized by the Center for Algorithmic Systems of the Institute of Information and Computing Sciences of Utrecht University. The workshop took place June 19–21, 2003. The 72 participants of WG 2003 came from universities and research institutes from 18 different countries and five different continents.

The workshop looks back at a long tradition. It was first held in 1975, and has been held 20 times in Germany, twice in Austria, and once in Italy, Slovakia, Switzerland, and the Czech Republic, and has now been held for the third time in The Netherlands. The workshop aims at uniting theory and practice by demonstrating how graph-theoretic concepts can be applied to various areas in computer science, or by extracting new problems from applications. It is devoted to the theoretical and practical aspects of graph concepts in computer science. The goal is to present recent research results and to identify and explore directions of future research. The talks given at the workshop showed how recent research results from algorithmic graph theory can be used in computer science and which graph-theoretic questions arise from new developments in computer science.

A total of 78 papers were submitted to the workshop. The program committee represented a wide scientific spectrum. In a careful reviewing process, with four reports per submission, the program committee selected 30 papers for presentation at the workshop. A number of very good submissions had to be rejected due to a lack of space in the program schedule. The referees' comments and the numerous fruitful discussions during the workshop were taken into account by the authors of these conference proceedings. In addition, there were two fascinating invited talks by A. Schrijver and M. Fellows. The social program of the workshop included a visit to the National Park 'De Hoge Veluwe,' with a visit to the Kröller-Müller museum.

With much pleasure, I thank all those who contributed to the success of WG 2003: the authors who submitted their work to the workshop, the speakers, the program committee members, and all referees. Thanks are also due to Jan van Leeuwen, for support and advice, to the members of the administrative staff of the Institute of Information and Computing Sciences of Utrecht University for their help, to magician Willem Tel who amazed the participants during the conference dinner, and to the helpful personnel of the Mennorode conference Center . Last, but certainly not least, special thanks go to the organizational committee, Gerard Tel, Marinus Veldhorst, and Thomas Wolle, for their many efforts.

Utrecht, August 2003 Hans Bodlaender

The Tradition of WG

1975 U. Pape – Berlin
1976 H. Noltemeier – Göttingen
1977 J. Mühlbacher – Linz
1978 M. Nagl, H.J. Schneider – Schloß Feuerstein, near Erlangen
1979 U. Pape – Berlin
1980 H. Noltemeier – Bad Honnef
1981 J. Mühlbacher – Linz
1982 H.J. Schneider, H. Güttler – Neunkirchen, near Erlangen
1983 M. Nagl, J. Perl – Haus Ohrbeck, near Osnabrück
1984 U. Pape – Berlin
1985 H. Noltemeier – Schloß Schwanenberg, near Würzburg
1986 G. Tinhofer, G. Schmidt – Stift Bernreid, near München
1987 H. Göttler, H.J. Schneider – Schloß Banz, near Bamberg
1988 J. van Leeuwen – Amsterdam
1989 M. Nagl – Schloß Rolduc, near Aachen
1990 R.H. Möhring – Johannesstift Berlin
1991 G. Schmidt, R. Berghammer – Richterheim Fishbackau, München
1992 E.W. Mayr – Wilhelm-Kempf-Haus, Wiesbaden-Naurod
1993 J. van Leeuwen – Sports Center Papendal, near Utrecht
1994 G. Tinhofer, E.W. Mayr, G. Schmidt – Herrsching, near München
1995 M. Nagl – Haus Eich, Aachen
1996 G. Ausiello, A. Marchetti-Spaccamela – Cadenabbia
1997 R.H. Möhring – Bildungszentrum am Müggelsee, Berlin
1998 J. Hromkovič, O. Sýkora – Castle Smolenice, near Bratislava
1999 P. Widmayer – Centro Stefano Franscini, Monte Verità, Ascona
2000 D. Wagner – Waldhaus Jacob, Konstanz
2001 A. Brandstädt – Boltenhagen, near Rostock
2002 L. Kučera – Český Krumlov
2003 H.L. Bodlaender – Mennorode, Elspeet, near Utrecht

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