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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. Güttler, 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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