Preface

The 27th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2001) was held in Boltenhagen (Mecklenburg-Vorpommern) June 14–16, 2001. It was organized by the Theoretical Computer Science group of the Department of Computer Science at the University of Rostock. The organizers gratefully acknowledge the support by the German Research Community (Deutsche Forschungsgemeinschaft - DFG) and the state Mecklenburg-Vorpommern.

As was the case for previous WG workshops, this workshop was devoted to the theoretical and practical aspects of graph concepts in computer science, and its contributed talks 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. Moreover, the workshop gave an impression of the impact of computer science on the efficiency of graph algorithms and on structural aspects of graphs and graph decomposition.

The workshop looks back to a remarkable tradition of 27 years; all previous WG conferences took place in the middle of Europe (Germany, The Netherlands, Italy, Switzerland, Slovakia). The participants of WG 2001 came from various countries such as Canada, China, Czech Republic, France, Great Britain, Greece, Italy, Norway, Russia, Sweden, Syria, Taiwan, The Netherlands, U.S.A., and of course, Germany.

The program committee represented the wide scientific spectrum and the aims of the conference. In a careful reviewing process with at least four reports per submission, the program committee selected 27 papers from the submissions. All accepted papers were presented at the conference, and the referees’ comments as well as the numerous fruitful discussions during the workshop have been taken into account by the authors of these conference proceedings. Moreover, there were two fascinating invited talks by

H.-J. Bandelt (University of Hamburg) on some connections between graph concepts such as median hulls and Steiner trees on one hand and molecular biology on the other hand,

and by

F. Meyer auf der Heide (University of Paderborn) on data management in networks, giving a survey on strategies for distributing and accessing shared objects in large parallel and distributed systems.

It is our pleasure to thank all those who contributed to the scientific success of WG 2001:
- all authors of submitted and of presented papers, and in particular the speakers
- the referees and subreferees
- the invited speakers
VI  Preface

- the DFG
- the state of Mecklenburg-Vorpommern, and last but not least
- the organizers Katrin Erdmann, Thomas Szymczak, Ernst de Ridder, supported by Roswitha Fengler before and Tilo Klenbt, Suhail Mahfud, and Hans-Jörg Schulz during the conference.

August 2001  Andreas Brandstädt and Van Bang Le
The Tradition of WG

Hosts – Location

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 Homburg
1981  J. Mühlbacher – Linz
1982  H.J. Schneider, H. Göttler – 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 Bernried, 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 Fischbachau, München
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 – Smolenice-Castle, near Bratislava
1999  P. Widmayer – Centro Stefano Franscini, Monte Verità, Ascona
2000  D. Wagner – Waldhaus Jakob, Konstanz
2001  A. Brandstädt – Boltenhagen, near Rostock
Program Committee

Hans Bodlaender  Utrecht University, The Netherlands
Andreas Brandstädt  University of Rostock, Germany (chair)
Victor Chepoi  Université de la Méditerranée, Marseille, France
Michel Habib  LIRMM Montpellier, France
Klaus Jansen  University of Kiel, Germany
Dieter Kratsch  Université de Metz, France
Luděk Kučera  Charles University, Prague, Czech Republic
Alberto Marchetti-Spaccamela  Università di Roma “La Sapienza”, Italy
Ernst W. Mayr  TU München, Germany
Rolf H. Möhring  TU Berlin, Germany
Manfred Nagl  RWTH Aachen, Germany
Hartmut Noltemeier  University of Würzburg, Germany
Jeremy P. Spinrad  Vanderbilt University, Nashville, USA
Ondrej Šýkora  Loughborough University, United Kingdom
Gottfried Tinhofer  TU München, Germany
Peter Widmayer  ETH Zürich, Switzerland

Additional Reviewers

Gerardo Bandera  Sandi Klavžar  Udi Rotics
Thomas Bayer  Ekkehard Köhler  Mark Scharbrodt
Hans-J. Boeckenhauer  Christian Laforest  Konrad Schlude
Peter Damaschke  Jean-Marc Lanignel  Heiko Schröder
Feodor F. Dragan  Van Bang Le  Martin Skutella
Stefan Dobrev  Zsuzsanna Lipták  Ladislav Stacho
Thomas Erlebach  Sonia P. Mansilla  Robert Szemérdi
Jens Ernst  Ross McConnell  Thomas Szyniszak
Jiri Fiala  Michal Mnuk  Ioan Todinca
Stefanie Gerke  Haiko Müller  Yann Vaxes
Yubao Guo  Takao Nishizeki  Ulrich Voll
Alexander Hall  Conrad Pomm  Imrich Vrt’o
Volker Heun  Pascal Prea  Karsten Weihe
Klaus Holzapfel  Martin Raab
Juraj Hromkovič  Ingo Rohloff

Sponsoring Institutions

Deutsche Forschungsgemeinschaft (DFG)
Land Mecklenburg-Vorpommern
Graph-Theoretic Concepts in Computer Science
27th International Workshop, WG 2001 Boltenhagen, Germany, June 14-16, 2001 Proceedings
Brandstät, A.; Le, V.B. (Eds.)
2001, X, 334 p., Softcover
ISBN: 978-3-540-42707-0