

Preface

This volume contains the 41 contributed papers and three invited papers presented at the 9th Annual European Symposium on Algorithms, held in Århus, Denmark, 28–31 August 2001. ESA 2001 continued the sequence:

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|----------------------------------|------------------------------------|
| – 1993 Bad Honnef (Germany) | – 1997 Graz (Austria) |
| – 1994 Utrecht (The Netherlands) | – 1998 Venice (Italy) |
| – 1995 Corfu (Greece) | – 1999 Prague (Czech Republic) and |
| – 1996 Barcelona (Spain) | – 2000 Saarbrücken (Germany). |

The proceedings of these previous meetings were published as Springer LNCS volumes 726, 855, 979, 1136, 1284, 1461, 1643, and 1879.

Papers were solicited in all areas of algorithmic research, including approximations algorithms, combinatorial optimization, computational biology, computational geometry, databases and information retrieval, external-memory algorithms, graph and network algorithms, machine learning, online algorithms, parallel and distributed computing, pattern matching and data compression, randomized algorithms, and symbolic computation. Algorithms could be sequential, distributed, or parallel, and should be analyzed either mathematically or by rigorous computational experiments. Experimental and applied research were especially encouraged.

Each extended abstract submitted was read by at least three referees, and evaluated on its quality, originality, and relevance to the symposium. The entire Program Committee met at Paderborn University on 12–13 May 2001 and selected 41 papers for presentation from the 102 submissions. These, together with three invited papers by Susanne Albers, Lars Arge, and Uri Zwick, are included in this volume.

The Program Committee consisted of:

Friedhelm Meyer auf der Heide (Paderborn; Chair)	Peter Bro Miltersen (Århus)
Micah Adler (Amherst)	Ian Munro (Waterloo)
Pankaj Kumar Agarwal (Duke)	Petra Mutzel (Wien)
Mark de Berg (Utrecht)	Stefan Näher (Trier)
Gerth Stølting Brodal (Århus)	Yuval Rabani (Technion)
Tom Cormen (Dartmouth)	Jörg Rüdiger Sack (Carleton)
Martin Dyer (Leeds)	Alistair Sinclair (Berkeley)
Stefano Leonardi (Rome)	Dorothea Wagner (Konstanz)

ESA 2001 was held as a combined conference (ALGO 2001) together with the Workshop on Algorithmic Engineering (WAE 2001) and the Workshop on Algorithms in BioInformatics (WABI 2001), and it was preceded by the Workshop

on Approximation and Randomized Algorithms in Communication Networks (ARACNE 2001).

The seven distinguished invited speakers of ALGO 2001 were:

- Susanne Albers (Universität Freiburg),
- Lars Arge (Duke University),
- Andrei Broder (AltaVista),
- Herbert Edelsbrunner (Duke University),
- Jotun Hein (University of Århus),
- Gene Myers (Celera Genomics), and
- Uri Zwick (Tel Aviv University).

The Organizing Committee of both ALGO 2001 and ESA 2001, consisted of Gerth Stølting Brodal, Rolf Fagerberg, Karen Kjør Møller, Erik Meineche Schmidt, and Christian Nørsgaard Storm Pedersen, all from BRICS, University of Århus. I am grateful to Gerth Stølting Brodal (BRICS), Tanja Bürger, and Rolf Wanka (Paderborn University) for their support of the program committee work and the preparation of the proceedings. ESA 2001 was sponsored by the European Association for Theoretical Computer Science (EATCS), and by BRICS. We thank ACM SIGACT for providing us with the software used for handling the the electronic submissions.

Paderborn, June 2001

Friedhelm Meyer auf der Heide

Referees

We thank the referees for their timely and invaluable contribution.

Oswin Aichholzer	Geeta Chaudhry	Rudolf Fleischer
Susanne Albers	Otfried Cheong	Peter Forsyth
Lyudmil Aleksandrov	Andrea Clementi	Zihui Ge
Arne Andersson	Sabine Cornelsen	Joakim Gudmundsson
Lars Arge	George Cybenko	Anupam Gupta
Estie Arkin	Artur Czumaj	Dan Gusfield
Matthias Bäsken	Sanjiv Das	Torben Hagerup
Luca Becchetti	Suprakash Datta	Sariel Har-Peled
Petra Berenbrink	Frank Dehne	Clint Hepner
Daniel Bernstein	Erik Demaine	Bill Hesse
Therese Biedl	Martin Dietzfelbinger	Xianglong Huang
Hans Bodlaender	Jeff Edmonds	Alon Itai
Andrej Brodnik	Thomas Erlebach	Pino Italiano
Alberto Caprara	Esteban Feuerstein	Riko Jacob

Michael Jünger	Muthu Muthukrishnan	Raimund Seidel
Mark Keil	Joseph Naor	Martin Skutella
Gunnar Klau	Rene van Oostrum	Sean Smith
Christian Knauer	Giampaolo Oriolo	Christian Sohler
Gabriele Kodydek	Rasmus Pagh	Cliff Stein
Elias Koutsoupias	Alessandro Panconesi	Christian Storm
Marc van Kreveld	Christian N. S. Pedersen	Leen Stougie
Christof Krick	Robert Preis	Mikkel Thorup
Danny Krizanc	Volker Priebe	Bhuvan Ugaonkar
Annegret Liebers	Cecilia M. Procopiuc	Kasturi Varadarajan
Andrzej Lingas	Yuri Rabinovich	Remco Velthkamp
Beppe Liotta	Harald Räcke	Rolf Wanka
Ivana Ljubić	Günther Raidl	Karsten Weihe
Alberto Marchetti-	Rajmohan Rajaraman	René Weiskircher
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Kristian R. Miltersen	Arnold Rosenberg	Thomas Willhalm
Michael Mitzenmacher	Günter Rote	Felix Wu
Rolf Möhring	Baruch Schieber	Martin Ziegler
Jason Morrison	Christian Schindelhauer	Oliver Zlotowski
Matthias Müller-	Ulf-Peter Schroeder	
Hannemann	Frank Schulz	

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