

# Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

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J.R. Gilbert R. Karlsson (Eds.)

**SWAT 90**

2nd Scandinavian Workshop on Algorithm Theory  
Bergen, Sweden, July 11–14, 1990  
Proceedings

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## FOREWORD

The papers in this volume were presented at the Second Scandinavian Workshop on Algorithm Theory held on July 11–14, 1990, in Bergen, Norway. The workshop, which continues the tradition of SWAT 88 and WADS 89, is intended as a forum for researchers in the area of design and analysis of algorithms. The call for papers sought contributions on original research on algorithms and data structures, in all areas, including combinatorics, computational geometry, parallel computing, and graph theory. There were 61 papers submitted, of which the program committee selected 34 for presentation. In addition, invited lectures were presented by Juris Hartmanis (Structural complexity theory: recent surprises), Robert Tarjan (New themes in algorithm design), and David Johnson (Data structures for traveling salesmen). This proceedings includes the first invited paper and an abstract of the third.

The organizing committee consisted of Bengt Aspvall, chairman (University of Bergen), Hjálmtýr Hafsteinsson (University of Iceland), Rolf Karlsson (Lund University), Erik M. Schmidt (University of Aarhus), and Esko Ukkonen (University of Helsinki).

The program committee consisted of Svante Carlsson (Lund University), John Gilbert, chairman (Xerox PARC and University of Bergen), Johan Håstad (Royal Institute of Technology, Stockholm), Thomas Lengauer (University of Paderborn), Andrzej Lingas (Lund University), Olli Nevalainen (University of Turku), Andrzej Proskurowski (University of Oregon), Jörg Sack (Carleton University), Raimund Seidel (University of California, Berkeley), and Jeffrey Vitter (Brown University).

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Palo Alto and Lund, April 1990

John Gilbert  
Rolf Karlsson

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