

Preface

The papers in this volume were presented at the 6th International Meeting on DNA Based Computers, organized by the Leiden Cewnter for Natural Computing and held from June 13 to June 17, 2000 at The Lorenz Center, University of Leiden, Leiden, The Netherlands. DNA Computing is a novel and fascinating development at the interface of computer science and molecular biology. It has emerged in recent years, not simply as an exciting technology for information processing, but also as a catalyst for knowledge transfer between information processing, nanotechnology, and biology. This area of research has the potential to change our understanding of the theory and practice of computing.

The call for papers and poster presentations sought contributions of original research and technical expositions in all areas of bio-computation. A total of 33 abstracts were submitted of which 16 were accepted for presentation and included in the proceedings. The papers were selected by the program committee based on originality and quality of research and on relevance to the bio-computing field. Invited talks were given by Prof. Masami Hagiya (Tokyo University), Prof. Laura Landweber (Princeton University), Prof. John Reif (Duke University), Prof. Thomas Schmidt (Leiden University), and Prof. Lloyd M. Smith (University of Wisconsin). Invited papers based on the talks of Prof. Hagiya and Prof. Reif are included in this volume, along with the contributed papers. Additional tutorials were held on the first and last days of the conference.

The conference was held under the auspices of the ACM Special Interest Group on Algorithms and Computation Theory (ACM SIGACT) and the European Association for Theoretical Computer Science (EATCS). We gratefully acknowledge support and sponsorship from the following organizations: the European Molecular Computing Consortium (EMCC), the European Commission (EC) Institute for Programming research and Algorithmics (IPA), the Leiden Institute of Advanced Computer Science (LIACS), the Lorentz Visitor Center (LC) and the Netherlands Organization for Scientific Research (NWO).

The program committee wishes to thank all of those who submitted papers for their consideration.

December 2000

Anne Condon
Program Chair
DNA6

Organization

Program Committee

M Amos	Univ. Liverpool, UK
J. Chen	Univ. Delaware, USA
A. Condon	Univ. British Columbia, Canada (Program Chair)
T. Head	Binghamton Univ., USA
N. Jonoska	Univ. South Florida, USA
L. Landweber	Princeton Univ., USA
G. Paun	Romanian Acad. Romania
G. Rozenberg	Univ. Leiden, The Netherlands
A. Suyama	Univ. Tokyo, Japan
E. Winfree	Caltech, USA
T. Yokomori	Waseda Univ., Japan
B. Yurke	Lucent Technologies, USA

International Organizing Committee

M Amos	Univ. Liverpool, UK
A. Condon	Univ. British Columbia, Canada
T. Head	Binghamton Univ., USA
L. Kari	Univ. Western Ontario, Canada
G. Rozenberg	Univ. Leiden, The Netherlands (Organizing Committee Chair)
H. Rubin	Univ. Pennsylvania, USA
E. Winfree	Caltech, USA



<http://www.springer.com/978-3-540-42076-7>

DNA Computing

6th International Workshop on DNA-Based Computers,
DNA 2000, Leiden, The Netherlands, June 13-17, 2000.

Revised Papers

Condon, A.; Rozenberg, G. (Eds.)

2001, CCLXXXVIII, 278 p., Softcover

ISBN: 978-3-540-42076-7