

Preface

The annual Workshop on Algorithm Engineering and Experiments (ALENEX) provides a forum for the presentation of original research in all aspects of algorithm engineering, including the implementation and experimental evaluation of algorithms and data structures. ALENEX 2010, the 12th workshop in this series, was held in Austin, Texas on January 16, 2010. The workshop was supported by SIAM, the Society for Industrial and Applied Mathematics, and by SICACT, the ACM Special Interest Group on Algorithms and Computation Theory.

ALENEX 2010 took place in conjunction with ANALCO 2010, the seventh Workshop on Analytic Algorithmics and Combinatorics. The two workshops included two joint sessions involving the invited speakers for the workshops: Peter Sanders (ALENEX) and Bruno Salvy (ANALCO).

ALENEX 2010 received 53 submissions, and 15 of these were selected for inclusion in the program. Paper selection was based on originality, technical quality, and relevance. Significant weight was given to papers that show solid experimental methodology. Considerable effort was devoted to the evaluation of the submissions, with four reviews for most papers. A special issue of the ACM Journal of Experimental Algorithmics will be devoted to extended versions of selected papers from this workshop.

We wish to thank all authors who submitted papers for consideration, the program committee for its hard work, and those external reviewers who assisted the program committee in the evaluation process. We are also indebted to Kirsten Wilden for her valuable help in the organization of this workshop, and to Microsoft Research for partially funding ALENEX 2010.

Guy Blelloch and Dan Halperin

ALENEX 2010 Program Committee

Guy Blelloch, Carnegie Mellon University (co-chair)
Edith Cohen, AT&T Labs-Research
Daniel Delling, Karlsruhe University and Microsoft Research
Matteo Frigo, Cilk Arts
Bernd Gärtner, ETH Zurich
Phillip Gibbons, Intel Research Pittsburgh
Dan Halperin, Tel Aviv University (co-chair)
Giuseppe Italiano, University of Rome
Ulrich Meyer, Goethe University Frankfurt/Main
Rasmus Pagh, IT University of Copenhagen
Satish Rao, University of California, Berkeley
Clifford Stein, Columbia University
Robert Tarjan, Princeton University and HP Labs
Anke van Zuylen, Tsinghua University
Yusu Wang, Ohio State University

External Reviewers

Ittai Abraham
Deepak Ajwani
Andreas Beckmann
Mikhail Belkin
Philip Bille
Gerth Stølting Brodal
Bruno Codenotti
Decheng Dai
Olivier Devillers
Alon Efrat
Komei Fukuda
Jie Gao
Heidi Gebauer
Robert Geisberger
Fabrizio Grandoni
Faraz Hach
Fang Hao
Michael Hoffmann
Martin Jaggi
Bastian Katz
Piyush Kumar
Luigi Laura
Hongyu Liang
Henry Lin
Gabriel Moruz
Christian L. Mueller
Maurizio Naldi
Andrei Negoescu
Vitaly Osipov
Valentin Polishchuk
Evangelia Pyrga
Barak Raveh
Knut Reinert
Ignaz Rutter
Srinivasa Rao Satti
Frans Schalekamp
Stefan Schirra
Sebastiano Vigna
Carola Wenk
Renato Werneck
Wei Yu
Christos Zaroliagis