

# **Workshop on Analytic Algorithmics and Combinatorics 2011**

**(ANALCO11)**

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22 January 2011**

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# Preface

The papers in these proceedings were presented in San Francisco, on January 22, 2011 at the Workshop on Analytic Algorithmics and Combinatorics (ANALCO'11).

The aim of ANALCO is to provide a forum for original research in the analysis of algorithms and associated combinatorial structures.

Papers in ANALCO study the properties of fundamental combinatorial structures that arise in practical computational applications (such as trees, permutations, strings, tries and graphs) and address the precise analysis of algorithms for processing such structures, including average-case analysis; analysis of moments, extrema, and distributions; and probabilistic analysis of randomized algorithms.

We selected 14 papers out of a total of 29 submissions. An invited lecture by Robert Sedgewick, "Algorithms for the Masses," was also presented at the workshop.

ANALCO'11 took place concurrently with the Workshop on Algorithm Engineering and Experiments (ALENEX'11). Researchers in both workshops work at understanding algorithmic performance, so we expect that interesting synergies can develop. People in the ANALCO community are encouraged to look over the ALENEX papers for problems where the analysis of algorithms might play a role; people in the ALENEX community are encouraged to look over these ANALCO papers for problems where experimentation might play a role.

We would like to express our gratitude to all the people contributing to the success of the workshop: the authors who submitted papers, the ANALCO Program Committee members, the external reviewers, and the helpful SIAM staff, in particular, Kirsten Wilden.

Philippe Flajolet and Daniel Panario

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