

Preface

This volume contains the papers presented at the 26th Annual Symposium on Combinatorial Pattern Matching (CPM 2015) held during June 29 – July 1, 2015, in Ischia, Italy.

The conference program included 34 contributed papers and three invited talks by Sorin Istrail from Brown University, USA, Rasmus Pagh from IT University of Copenhagen, Denmark, and Wojciech Szpankowski from Purdue University, USA. The contributed papers were selected out of 83 submissions from 35 countries, corresponding to an acceptance ratio of 40.9 %. Each submission received at least three reviews. We thank the members of the Program Committee and all the additional external reviewers for their hard and invaluable work that resulted in an excellent scientific program. Their names are listed on the following pages.

The objective of the annual CPM meetings is to provide an international forum for research in combinatorial pattern matching and related applications. It addresses issues of searching and matching strings and more complicated patterns such as trees, regular expressions, graphs, point sets, and arrays. The goal is to derive combinatorial properties of such structures and to exploit these properties in order to achieve a superior performance for the corresponding computational problems. The meeting also deals with problems in computational biology, data compression and data mining, coding, information retrieval, natural language processing, and pattern recognition.

The Annual Symposium on Combinatorial Pattern Matching started in 1990, and has since taken place every year. Previous CPM meetings were held in Paris, London (UK), Tucson, Padova, Asilomar, Helsinki, Laguna Beach, Aarhus, Piscataway, Warwick, Montreal, Jerusalem, Fukuoka, Morelia, Istanbul, Jeju Island, Barcelona, London (Ontario, Canada), Pisa, Lille, New York, Palermo, Helsinki, Bad Herrenalb, and Moscow. Starting from the third meeting, proceedings of all meetings have been published in the LNCS series, as volumes 644, 684, 807, 937, 1075, 1264, 1448, 1645, 1848, 2089, 2373, 2676, 3109, 3537, 4009, 4580, 5029, 5577, 6129, 6661, 7354, 7922, and 8486, respectively.

Selected papers from the first meeting appeared in volume 92 of *Theoretical Computer Science*, from the 11th meeting in volume 2 of the *Journal of Discrete Algorithms*, from the 12th meeting in volume 146 of *Discrete Applied Mathematics*, from the 14th meeting in volume 3 of the *Journal of Discrete Algorithms*, from the 15th meeting in volume 368 of *Theoretical Computer Science*, from the 16th meeting in volume 5 of the *Journal of Discrete Algorithms*, from the 19th meeting in volume 410 of *Theoretical Computer Science*, from the 20th meeting in volume 9 of the *Journal of Discrete Algorithms*, from the 21st meeting in volume 213 of *Information and Computation*, from the 22nd meeting in volume 483 of *Theoretical Computer Science*, and from the 23rd meeting in volume 25 of the *Journal of Discrete Algorithms*. A special issue of *Algorithmica* is planned for the extended versions of a selection of the papers presented at this year's meeting.

The whole submission and review process was carried out with the help of the EasyChair conference system. We thank the CPM Steering Committee for supporting Ischia as the site for CPM 2015, and for their advice and help in different issues. We thank the Italian Chapter of the European Association for Theoretical Computer Science for its scientific endorsement. We thank Dr. Aniello Castiglione for his invaluable help in the local organization.

The conference was sponsored by the Department of Computer Science of the University of Salerno and the Department of Computer Science of the University of Verona, which we thank for their financial support.

April 2015

Ferdinando Cicalese
Ely Porat
Ugo Vaccaro

Combinatorial Pattern Matching

26th Annual Symposium, CPM 2015, Ischia Island, Italy,

June 29 -- July 1, 2015, Proceedings

Cicalese, F.; Porat, E.; Vaccaro, U. (Eds.)

2015, XIX, 412 p. 69 illus., Softcover

ISBN: 978-3-319-19928-3