28th Annual Symposium on Combinatorial Pattern Matching

CPM 2017, July 4–6, 2017, Warsaw, Poland

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To all algorithmic stringologists in the world
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Preface

The Annual Symposium on Combinatorial Pattern Matching is 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 more efficient algorithms for the corresponding computational problems. The meeting deals with problems in bioinformatics and computational biology, coding and data compression, combinatorics on words, data mining, information retrieval, natural language processing, pattern discovery, string algorithms, string processing in databases, symbolic computing, and text searching and indexing.

This volume contains the papers presented at the 28th Annual Symposium on Combinatorial Pattern Matching (CPM 2017) held on July 4-6, 2017 in Warsaw, Poland.

The conference programme included 28 contributed papers and three invited talks by Artur Jeż (University of Wrocław, Poland), Giovanni Manzini (University of Eastern Piedmont and IIT-CNR, Italy), and Marcin Mucha (University of Warsaw, Poland). Contributions of the invited lectures are also included in this volume.

The contributed papers were selected out of 49 submissions, corresponding to an acceptance ratio of about 57%. Each submission received at least three reviews. We thank the members of the Programme Committee and all the additional external reviewers that are listed below for their hard and invaluable work that resulted in an excellent scientific programme.

The Annual Symposium on Combinatorial Pattern Matching started in 1990, and has since then 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, Moscow, Ischia, and Tel Aviv. From the 3rd to the 26th meeting, all proceedings were published in the LNCS (Lecture Notes in Computer Science) series. The 27th meeting in 2016 was the first to have its proceedings appear in the LIPIcs (Leibniz International Proceedings in Informatics) series, as volume 54.

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 Warsaw as the site for CPM 2017 and for their advice and help in different issues. We thank Tomasz Kociumaka and Tomasz Waleń from the University of Warsaw for their extensive involvement in the organisation of the conference and Hanna Bargiel and Monika Goszczycka from Global Congress, Poland for the local arrangements. We would like to thank the Warsaw Center of Mathematics and Computer Science for providing generous financial support to the conference.

Juha Kärkkäinen
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