

33rd Annual Symposium on Combinatorial Pattern Matching

CPM 2022, June 27–29, 2022, Prague, Czech Republic

Edited by

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To all algorithmic stringologists in the world

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■ Preface

The Annual Symposium on Combinatorial Pattern Matching (CPM) has by now over 30 years of tradition and is considered to be the leading conference for the community working on Stringology. The objective of the annual CPM meetings is to provide an international forum for research in combinatorial pattern matching and related applications such as computational biology, data compression and data mining, coding, information retrieval, natural language processing, and pattern recognition.

This volume contains the papers presented at the 33rd Annual Symposium on Combinatorial Pattern Matching (CPM 2022) held on June 27–29, 2022 in Prague, Czech Republic (in a hybrid mode due to the continuing Covid-19 pandemic). The conference program includes 26 contributed papers and three invited talks by Takehiro Ito (Tohoku University, Japan), Jeffrey Shallit (University of Waterloo, Canada), and Sharma V. Thankachan (University of Central Florida, USA). For the fourth time, CPM includes the “Highlights of CPM” special session, for presenting the highlights of recent developments in combinatorial pattern matching. In this fourth edition we invited Moses Ganardi (Max Planck Institute for Software Systems (MPI-SWS), Germany) to present his ESA 2021 paper “Compression by Contracting Straight-Line Programs” and Tomasz Kociumaka (University of California, Berkeley) to present a FOCS 2021 paper by T. Kociumaka, E. Porat and T. Starikovskaya “Small space and streaming pattern matching with k edits”.

The contributed papers were selected out of 43 submissions, corresponding to an acceptance ratio of about 60%. Each submission received at least three reviews. We thank the members of the Program Committee and all the additional external subreviewers who are listed below for their hard, invaluable, and collaborative effort that resulted in an excellent scientific program.

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, Tel Aviv, Warsaw, Qingdao, Pisa, Copenhagen, and Wrocław. From 1992 to the 2015 meeting, all proceedings were published in the LNCS (Lecture Notes in Computer Science) series. Since 2016, the CPM proceedings appear in the LIPIcs (Leibniz International Proceedings in Informatics) series, as volume 54 (CPM 2016), 78 (CPM 2017), 105 (CPM 2018), 128 (CPM 2019), 161 (CPM 2020), and 191 (CPM 2021).

The entire submission and review process was carried out using the EasyChair conference system. We thank the CPM Steering Committee for their support and advice.

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