

Preface

It is a pleasure to welcome you to the 5th International Castle Meeting on Coding Theory and Applications (5ICMCTA), held in Vihula Manor, Estonia, during the period of August 28–31, 2017. This volume contains the extended abstracts of the 24 submitted papers that were accepted for presentation at 5ICMCTA.

Previous workshops in the ICMCTA series were organized in La Mota Castle, Medina del Campo, Spain (1999 and 2008), Parador de Cardona, Spain (2011), and Pousada de Palmela, Portugal (2014). In the spirit of ICMCTA, we aim to bring together, in a beautiful and historical environment, young researchers as well as leading experts in order to present and discuss problems and results at the research frontier, related to the theoretical issues and practical applications of coding and information theory, and to identify new challenges and foster new collaborations. 5ICMCTA is highly international: the submitted papers were co-authored by researchers from about 20 countries, and when we include the program committees, people from almost 30 countries are involved.

The program contains presentations on relevant research areas in modern Coding Theory, including codes and combinatorial structures, algebraic geometric codes, group codes, convolutional codes, network coding, other applications to communications, and applications of coding theory in cryptography. All papers have passed through a thorough review process, which assures the high quality of the program.

In addition to the submitted talks, we are proud to present talks by our distinguished invited speakers: Gérard Cohen, Tor Helleseth, Camilla Hollanti, Raquel Pinto, and Paul Siegel.

The 5ICMCTA is being organized by the University of Tartu. In particular we wish to acknowledge the efforts of Yauhen Yakimenka, Anneli Vainumäe, Eva Pruusapuu, and Raquel Pinto.

We are very grateful to:

- the authors and participants who make up the program and who, we are convinced, will make 5ICMCTA a memorable event,
- the Scientific Committee and the sub-reviewers who performed excellently during the reviewing process,
- Easychair.org who provided the tools for efficient submission, management, and reviewing,
- The Norwegian-Estonian research cooperation programme and the project EMP133, which facilitated the organization of 5ICMCTA,
- Springer's LNCS for publishing this volume of extended abstracts,
- Springer's Cryptography and Communications for agreeing to publish a special volume of selected papers after 5ICMCTA,

- University of Tartu ASTRA project PER ASPERA Doctoral School of Information and Communication Technologies for providing funding for the student workshop.

We wish you a wonderful Castle Meeting!

July 2017

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Coding Theory and Applications

5th International Castle Meeting, ICMCTA 2017, Vihula,

Estonia, August 28-31, 2017, Proceedings

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2017, X, 297 p. 29 illus., Softcover

ISBN: 978-3-319-66277-0