

Preface

This volume contains the refereed proceedings of the Eighth International Conference on Sequences and Their Applications (SETA 2014) held in Melbourne, Australia, November 24–28, 2014. The previous seven conferences were held in Singapore 1998, Bergen (Norway) 2001, Seoul (South Korea) 2004, Beijing (China) 2006, Lexington (USA) 2008, Paris (France) 2010, and Waterloo (Canada) 2012.

SETA 2014 invited submissions of previously unpublished work on technical aspects of sequences and their applications in communications, cryptography, coding, and combinatorics, including:

- Randomness of sequences
- Aperiodic and periodic correlation of sequences
- Combinatorial aspects of sequences, including difference sets
- Sequences with applications in coding theory and cryptography
- Sequences over finite fields/rings/function fields
- Linear and nonlinear feedback shift register sequences
- Sequences for radar, synchronization, and identification
- Sequences for wireless communications
- Linear and nonlinear complexity of sequences
- Pseudorandom sequence generators
- Correlation and transformation of Boolean functions
- Multidimensional sequences and their correlation properties

Invited talks were given by Josef Dick (University of New South Wales, Australia), Tor Helleseeth (University of Bergen, Norway), Kathy Horadam (RMIT University, Australia), and Bernhard Schmidt (Nanyang Technological University, Singapore).

The Program Committee of SETA 2014 has received 36 qualified submissions and each was refereed by at least two experts. The Program Committee selected 24 of them for presentation at the conference and for the inclusion in these proceedings. In addition, these proceedings contain two refereed invited papers, which are based on the talks given by Josef Dick and Kathy Horadam.

Our sincere thanks go to the Program Committee for their dedication in the challenging task of refereeing the submissions. Special thanks go to the General Chair, Udaya Parampalli.

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