

The 4th International Workshop on Boolean Functions and their Applications

BFA 2019

Florence, Italy,
June 16-21, 2019

In honour of Prof. Claude Carlet's 70th birthday

Call for Abstracts

The BFA workshop is organised by Selmer Center, University of Bergen, and will take place at Villa Finaly, Florence, Italy.

BFA aims to provide a forum and an opportunity for researchers who work on Boolean functions and their applications in cryptography, coding theory, combinatorics, finite fields, etc, to exchange ideas and research interests.

Organizers:

Lilya Budaghyan, Tor Helleseth

Program Committee:

Marco Calderini, Cunsheng Ding, Kaisa Nyberg, Subhamoy Maitra

Confirmed Speakers:

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|--------------------|-------------------|-------------------|------------------|
| - Lilya Budaghyan | - Sylvain Guilley | - Nian Li | - Alev Topuzoglu |
| - Claude Carlet | - Tor Helleseth | - Sihem Mesnager | - Xiangyong Zeng |
| - Robert Coulter | - Daniel Katz | - Daniel Panario | - Yuyin Yu |
| - Marco Calderini | - Gregor Leander | - Emmanuel Prouff | |
| - Ulrich Dempwolff | - Chunlei Li | - Chunming Tang | |

Abstract Submission:

We request previously unpublished results on all aspects of discrete structures, particularly on Boolean functions and their applications in cryptography, coding theory, combinatorics, quantum computing, etc. Topics include but are not limited to:

- Foundational theory of Boolean functions and discrete structures
- Design, proposal, and analysis of cryptographically significant (vectorial) Boolean functions
- Theory and construction of quantum Boolean functions
- Theory of finite fields and its applications in cryptography and coding theory
- The study of applications of (vectorial) Boolean functions to cryptography, codes and other discrete structures

All participants who wish to contribute a 15-20 minute talk are invited to submit a one page abstract that summarizes their work in PDF format before March 15th, 2019.

Please send your abstract to marco.calderini@uib.no

The authors of accepted abstracts and the invited speakers will be invited to submit a full paper to appear (after a new round of reviewing) in a special issue in the journal: *Cryptography and Communications: Discrete Structures, Boolean Functions and Sequences*.

At least one author of each accepted abstract should register before April 26th, 2019.

Stipends for students presenting talks:

There is a limited number of stipends for covering the registration fee of students presenting a talk.

Important Dates

- Submission deadline: **March 15th, 2019**
- Acceptance notification: **April 15th, 2019**
- Early Registration Deadline: **April 26th, 2019**
- Workshop dates: **June 16-21, 2019**

For more information regarding the BFA workshop, please visit the workshop's webpage
<https://boolean.w.uib.no/bfa-workshops/bfa2019/>