

Computer Algebra in Coding Theory and Cryptography (CACTC)

SPECIAL SESSION AT THE 24TH CONFERENCE ON
APPLICATIONS OF COMPUTER ALGEBRA (ACA 2018)

SANTIAGO DE COMPOSTELA, JUNE 18-22, 2018

CALL FOR PARTICIPATION

We take up the baton of the organization of this session (22nd Edition) with a long tradition in the ACA conference.

This session aims to bring together researchers from all areas related to computer algebra (both theoretical and algorithmic) applied to Coding Theory and Cryptography.

Since much of the work related to these topics is recent or is still ongoing, this session will provide a stimulating forum where experts will be able to not only report their recent results, but also to propose new lines of research and discuss open questions.

It will also give us the opportunity to present the interest and the potential applications of these topics to the rest of the scientific community.

Topics of interest included, but not limited to are:

- Computer Algebra in Coding Theory
Codes and applications, Combinatorial structures, Algebraic-geometric codes, network coding, Quantum codes, Group codes, ...
- Computer Algebra in Cryptography
Algebraic Cryptanalysis, Post-quantum cryptography, (Code, Lattice and Hash)-based PKC, Multivariate PKC, ...
- Synergies between Computer Algebra, Coding Theory and Cryptography

Submissions should be sent to the session organizers following the ACA 2018 guidelines.

Session Organizers:

**IRENE MÁRQUEZ
CORBELLA**

Universidad de La Laguna
email: imarquec@ull.edu.es

**EMILIO SUÁREZ
CANEDO**

Universidad Autónoma de
Barcelona (UAB)
email: emiliosuarezcanedo@gmail.com

