

# Applicable Algebra in Engineering, Communication and Computing

## SPECIAL ISSUE on Applications of Computer Algebra (ACA 2019 Montreal)

### Call for Papers

This special issue will include selected refereed papers within the scope of the special session on Computer Algebra and Application to Combinatorics, Coding Theory and Cryptography, in the ACA 2019 conference held July 16-20 at Montreal. [http://www.cargo.wlu.ca/ACA\\_2019\\_Coding\\_Theory.html](http://www.cargo.wlu.ca/ACA_2019_Coding_Theory.html)



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#### Paper Submission:

Papers should be submitted via EasyChair: <https://easychair.org/conferences/?conf=aca20190>. Please upload a pdf file for each submission (of approximately 15 pages).

#### Important Dates:

Submission deadline: 31 October 2019

Author notification: 15 January 2020

Camera ready: February 28 2020

Any paper within the scope is welcome and all papers will be refereed according to the high standards of AAECC.

Specific topics include, but are not limited to:

- Codes and applications
- Combinatorial structures
- Algebraic-geometric code
- Network coding
- Quantum codes
- Group codes
- Algebraic Cryptanalysis
- Post-quantum cryptography
- Code, Lattice and Hash-based PKC
- Multivariate PKC
- Elimination theory
- Computational commutative algebra
- Multivariate polynomial ideal theory
- Solving systems of algebraic equations
- Algorithms for computing Groebner Bases

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