

Special Issue on Formal Methods for Robotics Formal Aspects of Computing

We invite submissions of papers on Formal Methods for Robotic Systems for publication in a special issue of Formal Aspects of Computing (<https://link.springer.com/journal/165>).

Scope

This special issue is devoted to original research papers on techniques, applications, industrial case studies, and experience reports connected to the design and deployment based on formal methods of robotic systems. Focus is given on all aspects of modelling, simulation, testing, and implementation for the validation and verification of robotic systems.

Topics of Interest

In particular, the topics of interest include but are not limited to:

- **Formal domain-specific languages**
- **Verification of robotic applications: model checking, theorem proving, and others**
- **Requirements analysis and validation**
- **Formal approaches to simulation and testing**
- **Correct-by-construction approaches**
- **Probabilistic models and analysis**
- **Formal approaches to safety and security**

Submission Format and Guidelines

Papers should have no more than 30 pages and should be formatted according to the instructions used for articles in the journal Formal Aspects of Computing. A detailed submission guideline is available as 'Instructions for Authors' at:

https://www.springer.com/computer/journal/165?detailsPage=pltdci_136557

All manuscripts and any supplementary material should be submitted through the journal's Editorial Manager: <https://www.editorialmanager.com/faoc/>.

The authors must select 'S.I.: Robotics' when they reach the 'Article Type' step in the submission process.

All papers will be peer-reviewed by at least three independent reviewers. Requests for additional information should be addressed to the guest editors.

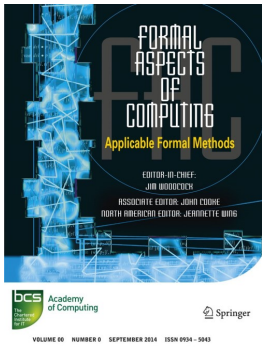
Important dates

- Submission deadline: **31.3.2019**
- Notification deadline: **30.9.2019**

Papers submitted early will be dealt with straightaway.

Guest editors

Ana Cavalcanti (<https://www-users.cs.york.ac.uk/~alcc>)
Pedro Ribeiro (<https://www-users.cs.york.ac.uk/~pfr>)
University of York





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