

Call For Papers (modified from webpage to indicate special issues)

<https://parasol.tamu.edu/wafr/wafr2018/cfp.php>

The Workshop on the Algorithmic Foundations of Robotics (WAFR) is a biannual multi-disciplinary single-track meeting of international researchers presenting the latest advances on algorithmic problems in robotics. WAFR was created in 1994 as a small-size workshop. It has been held since 1994 and while it spans a relatively small community, it has an established reputation as one, if not the most, important venue for presenting algorithmic work related to robotics.

The focus of WAFR is on the design and analysis of robot algorithms from both theoretical and practical angles. These algorithms process inputs from noisy sensors, build geometric and physical models of the world, plan high-and low-level actions at different time horizons, and execute these actions on actuators with limited precision. The design and analysis of robot algorithms raise a unique combination of questions from many fields, including control theory, computational geometry and topology, geometrical and physical modeling, reasoning under uncertainty, probabilistic algorithms, game theory, machine learning, and theoretical computer science. In addition to these topics, we also encourage papers on applications of robot algorithms to important or new domains, such as manufacturing, legged locomotion, distributed robotics, human-robot interaction, surgical robots, intelligent prosthetics, and brain-controlled robots. Furthermore, we welcome papers on applications of robot algorithms in domains beyond the traditional scope of robotics, e.g., computational biology, computer animation, sensor networks. The workshop proceedings will be published in the [Springer Proceedings in Advanced Robotics \(SPAR\)](#) series and selected papers will be invited for publication in a special issue of the [International Journal of Robotics Research \(IJRR\)](#) and the [IEEE Transactions on Automation Science and Engineering \(T-ASE\)](#).

Important Dates

- **Jul 16:** WAFR Paper Submission
- **Sep 5:** WAFR Acceptance Notification
- **Dec 9-11:** WAFR 2018
- **Apr 1:** WAFR T-ASE Special Issue Submission Portal Opens
- **Apr 11:** WAFR T-ASE Special Issue Submission Portal Closes

Information for Authors

Information on manuscript preparation and on the submission process is available [at this link](#).