



# CALL FOR PAPERS

**ICRMPP 2020**  
**Mar 23-24, 2020**  
**Tokyo, Japan**

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICRMPP 2020 : International Conference on Robotic Mapping and Path Planning is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Robotic Mapping and Path Planning. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

- Robotic mapping
- Robotic navigation and localization
- Path planning and systematic exploration
- Robotic mapping and communication systems
- Correctness, consistency, and criteria for evaluating spatial representations
- Information adequacy, extractability, and maintainability
- Efficiency and scalability
- Spatial representation and organization
- Basic spatial representation approaches
- Coordinate-based representations
- Occupancy-based representations
- Geometric representations
- Landmark-based representations
- Relational representations
- View graph representations
- Route graph representations
- Organizational forms
- Plain representation
- Hierarchical organization
- Local coordinate-based and global relational representation
- Combining different organizational forms
- Robotic mapping problem
- Kalman filter approaches
- Expectation maximization algorithms
- Hybrid approaches
- Occupancy grid maps