

ARCAI 2024 Special Session “Advances in unmanned ships”

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Call for Papers:

With the rapid development of automation and artificial intelligence, unmanned ship technology is becoming an important research direction in the maritime field. Unmanned ships, characterized by unmanned operation, autonomous navigation, and remote control, hold tremendous potential for various domains, including marine resource exploration, maritime transportation, oceanographic research, and maritime safety.

The aim of this Session is to provide a forum for the researchers and practitioners to exchange their latest theoretical and technological achievements of unmanned ships. We welcome researchers from academia and industry to submit original research papers, review articles, and application cases, sharing their innovative achievements and experiences.

The research topics covered in this session include, but are not limited to, the following:

- Motion control of unmanned ships
- Intelligent control of unmanned ships
- Fault diagnosis and fault tolerant control of unmanned ships
- Data-driven-based control of unmanned ships
- Path planning of unmanned ships
- Collision avoidance of unmanned ships
- Collision avoidance of unmanned ships
- Cooperative formation technology of unmanned ships
- Energy management of unmanned ships
- Cooperative formation technology of unmanned ships
- Electric equipments of unmanned ships
- Intelligent microgrid of unmanned ships
- Environmental perception techniques of unmanned ships
- Offense and defence game of unmanned ships
- Intelligent decision-making of unmanned ships
- Unmanned ships design and development
- Applications of unmanned ships
- Artificial intelligence (AI) in unmanned ships

Accepted and presented papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements and indexed by EI Compendex and Scopus. Selected papers will be invited to SCI Journal Special Issues.