



Data/Knowledge-Driven Behaviour Analysis for Maritime Autonomous Surface Ships—2nd Edition

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Message from the Guest Editors

Understanding, modeling, and predicting ship behaviors are fundamental and essential issues for planning, controlling, and operating different levels of Maritime Autonomous Surface Ships (MASS). The maritime traffic data (e.g., radar data, AIS data, CCTV data, etc.) provide designers, officers on watch, and traffic operators with extensive information about the states of ships at present and in history, which are the treasure for behavior analysis.

With the successful Special Issue "Data/Knowledge-Driven Behaviour Analysis for Maritime Autonomous Surface Ships" in 2021, this special issue is continuing to provide an excellent medium to present the latest developments on methods and tools suitable for relevant issues, including but not limited to:

- Data-driven behavior modeling and simulation
- Knowledge-driven behavior modeling and reasoning
- Multi-source heterogeneous traffic data fusion
- Semantic analysis of ship behaviors
- Quantifying COLREGs and seamanship for machine
- Inference engine and ontology reasoning for rule-compliant MASS
- Maritime traffic situational awareness
- Multi-agent simulation
- Risk analysis and management of MASS





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Message from the Editor-in-Chief

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