

Special Issue

Innovations in Maritime Safety: Integrating Artificial Intelligence, Human Factors, and System Resilience

Message from the Guest Editor

In this *Special Issue*, original research articles and comprehensive reviews are welcome. Research areas may include, but are not limited to, the following:

- AI-based decision support systems for navigation, maintenance, and emergency response.
- Human-machine interactions, ergonomics, and adaptive automation in ship operations.
- Predictive analytics and digital twins for safety and reliability assessment.
- Maritime cybersecurity and AI-enabled resilience strategies.
- Simulation and training systems that incorporate AI and virtual reality.
- Risk modeling and probabilistic safety assessment using AI techniques.
- Human performance and situational awareness in autonomous ship control.
- Regulatory frameworks and ethical considerations in AI-driven maritime operations.
- Integrating resilience engineering principles into the design and operation of ships.
- Case studies and best practices on AI adoption in maritime safety management.

We look forward to receiving your contributions to this Special Issue, which aims to advance both the theoretical understanding and practical implementation of innovations in maritime safety through the integration of artificial intelligence, human factors, and system resilience.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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