QR2MSE 2024 Special session Safety of Waterborne Transportation

By introducing information technology, artificial intelligence and big data, there has been an enormous increase in the complexity of the waterborne transportation systems. For example, with the development of autonomous ships and new energy ships, new challenging issue occurs such as lack of statistical data, unknow unknows. Advanced techniques for the safety analysis of waterborne transportation should be carried out.

Therefore, there is a need to carry out more research to improve the safety of waterborne transportation systems. This session focuses on the new and challenging problems in safety of maritime transportation systems. Topics of interest include, but are not limited to, the following:

- Risk assessment of maritime accidents
- Causation factors analysis of maritime accidents
- Human reliability analysis of waterborne transportation
- Decision-making of risk control options
- Emergency response and preparedness of maritime accidents
- Safety of autonomous ships/underwater vehicles
- Safety of new energy ship
- Resilience of waterborne transportation system

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