

## **AI-based surrogate model for the prediction of ship fuel consumption reflecting hydrometeorological conditions**

Zhang, Mingyang; Tsoulakos, Nikolaos; **Kujala, Pentti Jouko Sakari**; Hirdaris, Spyros Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE 2024 ; vol. 9 2024 / OMAE2024-121992, V009T13A016 ; 11 pages <https://doi.org/10.1115/OMAE2024-121992>

## **Azimuthing propulsion in ice management**

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## **Comparison and evaluation of learning capabilities of deep learning methods for predicting ship motions**

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## **Exploring historical maritime cyber-attacks and introducing maritime security operations center as a solution to mitigate them**

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## **An investigation of winter navigation and icebreaker needs in the ice-infested water: The gulf of Finland and the Gulf of Riga**

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## **On the data-driven investigation of factors affecting the need for icebreaker assistance in ice-covered waters**

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## **Safety improvements for high-speed planing craft occupants : A systematic review**

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## **A ship digital twin for safe and sustainable ship operations**

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## **Small unmanned surface vessels — a review and critical analysis of relations to safety and safety assurance of larger autonomous ships**

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## **Structural health monitoring on offshore jacket platforms using a novel ensemble deep learning model**

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## **A study on the ice resistance characteristics of ships in rafted ice based on the circumferential crack method**

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## **System level simulation of the winter navigation in the Baltic Sea**

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