

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> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Azimuthing propulsion in ice management

Hänninen, Samuli; **Kujala, Pentti Jouko Sakari**; Määttä, Pirjo; Heideman, Torsten; Korsström, Andrei; Viheriälä, Sampo; Koponen, Jorma Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering - OMAE 2024 ; Vol. 6 2024 / art. OMAE2024-127102, V006T07A016 ; 10 pages <https://doi.org/10.1115/OMAE2024-127102> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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

Zhang, Mingyang; Liu, Con; **Kujala, Pentti Jouko Sakari**; Hirdaris, Spyros Proceedings of 15th International Marine Design Conference (IMDC-2024) 2024 / p. 1499-1510 <https://doi.org/10.59490/imdc.2024.838>

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

Nasr, Ahmed Nagi Abdelaziz Mohamed; Leiger, Roomet; Zaitseva-Pärnaste, Inga; **Kujala, Pentti Jouko Sakari** Theory and practice of shipbuilding : Proceedings of the 26th Symposium (SORTA 2024), Zadar, Croatia, 2-5 October 2024 2024 / p. 235-245 <https://doi.org/10.3233/PMST240042> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

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

Liu, Cong; Kulkarni, Ketki; Suominen, Mikko; **Kujala, Pentti Jouko Sakari**; Musharraf, Mashura Cold regions science and technology 2024 / art. 104173 <https://doi.org/10.1016/j.coldregions.2024.104173> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Roshan, Fatemeh; Dashtimanesh, Abbas; **Kujala, Pentti Jouko Sakari** Journal of marine science and engineering 2024 / art. 845 <https://doi.org/10.3390/jmse12050845> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A ship digital twin for safe and sustainable ship operations

Hirdaris, Spyros; Zhang, M; Tsoulakos, Nikolaos; **Kujala, Pentti Jouko Sakari** State-of-the-Art Digital Twin Applications for Shipping Sector Decarbonization 2024 / p. 192-220 <https://doi.org/10.4018/978-1-6684-9848-4.ch009>

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

Bolbot, Victor; Sandru, Andrei; Saarniniemi, Ture; Puolakka, Otto; **Kujala, Pentti Jouko Sakari**; Valdez Banda, Osiris A. Journal of marine science and engineering 2023 / art. 2387, 38 p. : ill <https://doi.org/10.3390/jmse11122387> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Wang, Mengmeng; Incecik, Atilla; Tian, Zhe; Zhang, Mingyang; **Kujala, Pentti Jouko Sakari**; Gupta, Munish; Krolczyk, Grzegorz; Li, Zhixiong Ocean engineering 2024 / art. 117510 <https://doi.org/10.1016/j.oceaneng.2024.117510> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Huang, Jiayu; Diao, Feng; Ding, Shifeng; Han, Sen; **Kujala, Pentti Jouko Sakari**; Zhou, Li Water 2024 / art. 854 <https://doi.org/10.3390/w16060854> [Journal metrics at Scopus](#) [Article at Scopus](#)

System level simulation of the winter navigation in the Baltic Sea

Kujala, Pentti Jouko Sakari; Kulkarni, Ketki; Kondratenko, Aleksandr; Lu, Liangliang; Winberg, Christine; Li, Fang; Musharraf, Mashura Proceedings of 15th International Marine Design Conference (IMDC-2024) 2024 / p. 408-420 <https://doi.org/10.59490/imdc.2024.902>

Systems driven intelligent decision support methods for ship collision and grounding prevention : Present status, possible solutions, and challenges

Zhang, Mingyang; Taimuri, Ghalib; Zhang, Jinfen; Zhang, Di; Yan, Xinping; **Kujala, Pentti Jouko Sakari**; Hirdaris, Spyros Reliability engineering and system safety 2025 / art. 110489 <https://doi.org/10.1016/j.ress.2024.110489>

Uued inimesed ja positsioonid

Kiigema, Kadri; Sibinski, Maciej; Bauk, Sanja; **Kujala, Pentti Jouko Sakari**; Levo, Anu-Mai; Vaimann, Toomas Mente et Manu 2023 / lk. 44-47 : fot https://www.ester.ee/record=b1242496*est