



## Marine Propeller Hydroacoustics: Numerical and Experimental Approaches for Underwater Noise Detection

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### Message from the Guest Editors

Dear Colleagues,

Ship underwater noise is an interesting and relatively unexplored research field. Over the last three decades, shipping has caused a relevant increase (about 10 dB) of the sea natural background noise level, especially in the frequency range that is particularly hazardous for marine life. Among the primary sources of underwater noise, ship propellers, especially if cavitating, are recognized as the most annoying. Hence, the availability of accurate numerical and experimental investigations that can detect the main source of the sound of isolated propellers or in behind-hull conditions, as well as the noise field radiated in water, is of crucial importance for the design of modern ships.

This Special Issue invites original scientific contributions whose investigations are focused on the analysis of the noise radiated by all types of marine propulsors in design and off-design conditions, in cavitating or non-cavitating conditions, indifferently dealing with any numerical and experimental approach. Studies that provide insights into the physics of noise-generating mechanisms are welcome.





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