



Unconventional Marine Vehicles

Guest Editor:

Dr. Simone Mancini

Force Technology, Department of
Hydro and Aerodynamics, Force
Technology, 2800 Kgs. Lyngby,
Denmark

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Message from the Guest Editor

Unconventional hulls, e.g., planing and stepped hulls, catamarans and multihulls, small waterplane area twin hulls (SWATHs), slice SWATHs, air cushion vehicles (ACV), and surface effect ships (SES), wing-in-ground (WIG), and hydrofoils, are of great interest in the marine industries and in the researcher community, as these unconventional ships could be the best-fit solution for specific issues that conventional hulls fail to ensure, in particular, the capability to reach high speeds, reduce hull motion, or increase payloads. However, unconventional hulls are not so easy to investigate in terms of experimental test, due to difficulties in recreating and evaluating the complex phenomena underpinning an unconventional hull's physical behaviors. Today, the increase of computational resources and tools, such as CFD methods (RANS, LES, SPH, etc.), gives researchers great support in the investigation of the performances (resistance, seakeeping, and maneuverability attitude) of unconventional hulls, also in the early design stage. This Special Issue aims to collect state-of-the-art contributions about the investigation and analysis of performances of unconventional hulls.





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Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
Oceans Graduate School and The
UWA Oceans Institute, The
University of Western Australia,
Perth, WA 6009, Australia

Message from the Editor-in-Chief

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*Journal of Marine Science and
Engineering* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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