

**Calm-water performance of a boat with two swept steps at high-speeds: Laboratory measurements and mathematical modeling**

**Niazmand Bilandi, Rasul;** Vitiello, Luigi; Mancini, Simone; Nappo, Vincenzo; Roshan, Fatemeh; Tavakoli, Sasan; **Dashtimanesh, Abbas** Procedia manufacturing 2020 / p. 467-474 : ill <https://doi.org/10.1016/j.promfg.2020.02.046>

**CFD analyses on the water entry process of a freefall lifeboat**

Huang, Luofeng; Tavakoli, Sasan; Li, Minghao; Dolatshah, Azam; Pena, Blanca; Ding, Boyin; **Dashtimanesh, Abbas** Ocean engineering 2021 / art. 109115, 11 p. : ill <https://doi.org/10.1016/j.oceaneng.2021.109115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparative study of experimental and CFD results for stepped planing hulls**

**Niazmand Bilandi, Rasul;** Dashtimanesh, Abbas; Mancini, Simone; Vitiello, Luigi Ocean engineering 2023 / art. 114887 <https://doi.org/10.1016/j.oceaneng.2023.114887> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Comparison between the dynamic behavior of the non-stepped and double-stepped planing hulls in rough water: A numerical study**

Esfandiari, Arman; Tavakoli, Sasan; **Dashtimanesh, Abbas** Journal of ship production and design 2020 / Paper Nr: SNAME-JSPD-2020-36-1-52 ; p. 52–66 <https://doi.org/10.5957/jspd.2020.36.1.52>

**A comprehensive stepped planing hull systematic series : part 1 - resistance test**

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**Development of a mathematical model for performance prediction of planing catamaran in calm water**

Ghassemzadeh, Abbas; **Dashtimanesh, Abbas;** Habibiasl, M.; Sahoo, P. International journal of maritime engineering 2019 / art.: IJME 538, p. 183–194 [https://www.rina.org.uk/IJME\\_538.html](https://www.rina.org.uk/IJME_538.html) <http://dx.doi.org/10.3940/rina.ijme.2019.a2.538>

**Digitalization of high speed craft design and operation challenges and opportunities**

**Dashtimanesh, Abbas;** Ghaemi, Mohammad Hossein; Wang, Youjiang Procedia Computer Science 2022 / p. 566-576 <https://doi.org/10.1016/j.procs.2022.01.254> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Dynamic motion analysis of stepless and stepped planing hulls in random waves: a CFD model perspective**

**Niazmand Bilandi, Rasul;** Tavakoli, Sasan; Mancini, Simone; Dashtimanesh, Abbas Applied Ocean Research 2024 / art. 104046 <https://doi.org/10.1016/j.apor.2024.104046> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Dynamic of a planing hull in regular waves: Comparison of experimental, numerical and mathematical methods**

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**Dynamic of tunneled planing hulls in waves**

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**Effects of step configuration on hydrodynamic performance of one- and doubled-stepped planing flat plates: A numerical simulation**

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**Effects of vertical motions on roll of planing hulls**

**Dashtimanesh, Abbas;** Tavakoli, Sasan; Mancini, Simone; Mehr, Javad A.; Milanese, Stefano Journal of offshore mechanics and arctic engineering 2021 / p. 041401–041411 <https://doi.org/10.1115/1.4050210> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**How to improve full-scale self-propulsion simulations? A case study on a semi-displacement hull**

**Niazmand Bilandi, Rasul;** Mancini, Simone; Dashtimanesh, Abbas; **Lakatoš, Mikloš** HSMV 2023 : Proceedings of the 13th Symposium on High Speed Marine Vehicles 2023 / p. 265-274 <https://doi.org/10.3233/PMST230034> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Hull-propeller interaction for planing boats: a numerical study**

Roshan, Fatemeh; **Dashtimanesh, Abbas;** Tavakoli, Sasan; **Niazmand Bilandi, Rasul;** Abyn, Hassan Ships and offshore structures 2020 / 14 p. : ill <https://doi.org/10.1080/17445302.2020.1790295> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Hydrodynamic characteristics of tunneled planing hulls in calm water**

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### **Hydrodynamic study of heeled double-stepped planing hulls using CFD and 2D+T method**

**Niazmand Bilandi, Rasul**; **Dashtimanesh, Abbas**; Tavakoli, Sasan Ocean engineering 2020 / art. 106813 ; 21 p. : ill <https://doi.org/10.1016/j.oceaneng.2019.106813> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Numerical analysis of shipping water impacting a step structure**

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### **Numerical modelling of a planing craft with a V-Shaped spray interceptor arrangement in calm water**

**Lakatoš, Mikloš**; **Tabri, Kristjan**; **Dashtimanesh, Abbas**; Andreasson, Henrik HSMV 2020 : Proceedings of the 12th Symposium on High Speed Marine Vehicles 2020 / p. 33-42 <https://doi.org/10.3233/PMST200024> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Numerical study on a heeled one-stepped boat moving forward in planing regime**

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### **Performance prediction of a Hard-Chine Planing Hull by employing different CFD models**

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### **A revisited verification and validation analysis for URANS simulation of planing hulls in calm water**

**Niazmand Bilandi, Rasul**; Mancini, Simone; Dashtimanesh, Abbas; Tavakoli, Sasan Ocean engineering 2024 / art. 116589 <https://doi.org/10.1016/j.oceaneng.2023.116589> [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**

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### **Seakeeping of double-stepped planing hulls**

**Niazmand Bilandi, Rasul**; Tavakoli, Sasan; **Dashtimanesh, Abbas** Ocean engineering 2021 / art. 109475, 23 p. : ill <https://doi.org/10.1016/j.oceaneng.2021.109475> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Ship acceleration motion under the action of a propulsion system: a combined empirical method for simulation and optimisation**

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### **A six-DOF theoretical model for steady turning maneuver of a planing hull**

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### **Stepped hulls early stage design by implementing 2D+T method**

**Niazmand Bilandi, Rasul**; Dashtimanesh, Abbas; Tavakoli, Sasan HSMV 2023 : Proceedings of the 13th Symposium on High Speed Marine Vehicles 2023 / p. 23-32 <https://doi.org/10.3233/PMST230005> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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### **Wake waves of a planing boat : an experimental model**

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