

Extended Reference List

Nikola VLADIMIR, Ph.D.

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2. Member of the Programme Committee – **3rd Kotor International Maritime Conference – KIMC 2023**, Organized by: Faculty of Maritime Studies in Kotor, November 2023, Kotor, Montenegro.
3. Member of the Scientific Committee – **4th International Naval Architecture and Maritime Symposium (INT-NAM 2023)**, Organized by: Yildiz Technical University Naval Architecture and Maritime Faculty, October 2023, Istanbul, Türkiye.
4. Member of the Organizing Committee – **Conference on Advanced Methods in the Design and Analysis of Engineering Structures**, Organized by: Department of Technical Sciences of the Croatian Academy of Sciences and Arts and Croatian Society of Mechanics, October 20, 2023, Zagreb, Croatia.
5. Member of the Programme Committee – **2nd Kotor International Maritime Conference – KIMC 2022**, Organized by: Faculty of Maritime Studies in Kotor, November 2022, Kotor, Montenegro.
6. Member of the International Organizing Committee – **Global Conference on Naval Architecture and Ocean Engineering – G-NAOE 2022**, Organized by: The Society of Naval Architects of Korea (SNAK), November 2022, Changwon, South Korea.
7. Chair of the Standing Committee and Chair of the Local Organizing Committee – **15th International Symposium on Practical Design of Ships and Other Floating Structures – PRADS 2022**, Organized by: University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture and Bureau Veritas, Paris, October 2022, Dubrovnik, Croatia.
8. Member of the Programme Committee – **1st Kotor International Maritime Conference – KIMC 2021**, Organized by: Faculty of Maritime Studies in Kotor, November 2021, Kotor, Montenegro.
9. Member of the Technical Advisory Panel – **2nd International Conference on Smart & Green Technology for Shipping and Maritime Industries – SMATECH 2019**, Organized by: ASRANet, July 2019, Glasgow, UK.
10. Member of the Organizing Committee and Programme Committee – **8th International Maritime Science Conference – IMSC 2019**, Organized by: Faculty of Maritime Studies in Kotor & Faculty of Maritime Studies in Split, April 2019, Budva, Montenegro.
11. Co-Organizer – **Naval Hydro Workshop**, Organized by: University of Zagreb, Faculty of

- Mechanical Engineering and Naval Architecture (H. Jasak & N. Vladimir), January 2019, Zagreb, Croatia.
12. Committee Member at **20th International Ship and Offshore Structures Congress (ISSC)**, September 2018, Liege, Belgium & Amsterdam, The Netherlands.
 13. Organizer of **2nd meeting of the Dynamic Response Committee, International Ship and Offshore Structures Congress (ISSC)**, November 2016, Centre for Advanced Academic Studies (CAAS), Dubrovnik, Croatia.
 14. Observer at **19th International Ship and Offshore Structures Congress (ISSC)**, September 2015, Cascais, Portugal.
 15. Member of the Organizing Committee – **7th International Conference on Hydroelasticity in Marine Technology**, Organized by: Bureau Veritas, Paris and University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, September 2015, Split, Croatia.
 16. Member of the International Scientific Committee – **18th International Conference on Ships and Shipping Research – NAV 2015**, Organized by: Italian Association of Marine Engineering (ATENA), June 2015, Lecco, Italy.
 17. Member of the Organizing Committee – **2nd International Conference on Springing & Whipping of Ships**, Organized by: Bureau Veritas, Paris and University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, November 2012, Split, Croatia.

Journals

- 01/2025 – **Journal of Marine Science and Application (ISSN: 1671-9433, eISSN: 1993-5048)**, Member of the Editorial Board
- 02/2024 – **Transportation Research Part D: Transport and Environment (ISSN: 1879-2340, eISSN: 1361-9209)**, Member of the Editorial Board
- 07/2023 – **Transactions of FAMENA (ISSN: 1333-1124, eISSN: 1849-1391)**, Member of the Local Editorial Board
- 11/2021 – **Energies (ISSN: 1996-1073)**, Section Board Member
- 06/2014 – **International Journal of Naval Architecture and Ocean Engineering (ISSN: 2092-6782, eISSN: 2092-6790)**, Member of the Editorial Board

Selected Lectures, Seminars, Presentations, Talks etc.

1. Nikola Vladimir.
Projects and „Green“ Initiatives of the University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture.
Presentation – GreenMaritime SUMMIT, Hub, Network, Policy Recommendation, Organized by the Center of Technology Transfer Zagreb within the Conference on Sustainable Innovations in Blue Sector, Rijeka, Croatia, December 05, 2023.
2. Nikola Vladimir.
Decarbonization of Marine Operations – Applications of Technical and Operative Decarbonization Measures to Fishing Vessels.
Invited Talk – Working Group 3 "Green Deal" Session of the Mediterranean Advisory Group (MEDAC), December 05, 2023. (Participation in online mode).
3. Marija Koričan & Nikola Vladimir.
Integration of Innovative Environmentally Acceptable Solutions in order to Achieve Decarbonization Goals with an Emphasis on the Fishing Fleet. (in Croatian)
Presentation – Conference on Sustainable and Ambitious Vision of Energy Development, University of Zagreb, Faculty of Science, Zagreb, Croatia, November 11, 2023.
4. Nikola Vladimir & Ivo Senjanović.
Hydroelasticity of Ships and Offshore Structures. (in Croatian)
Lecture – Conference on Advanced Methods in the Design and Analysis of Engineering Structures, Croatian Academy of Sciences and Arts, Zagreb, Croatia, October 20, 2023.
5. Manuela Vukić, Nikola Vladimir, Zdenko Tonković, Ivan Čatipović, Vladimir Soldo.
Applicability of Aquavoltaics in an Offshore Multi-Use Setting in the Adriatic Sea.
Poster – INMARTECH 2023 Conference, Barcelona, Spain, June 20-22, 2023.
6. Nikola Vladimir, Marija Koričan, Dario Omanović, Loukia Prentza, Eirini-Asimina Stamatopoulou, Nikolaos Ventikos.
Water Quality Monitoring and Marine Pollution Control: A Case Study of Fish Farm in Krka River, Croatia.
Presentation – 1st Kotor International Maritime Conference (KIMC 2021), Kotor, Montenegro,

- November 26-27, 2021.
7. Nikola Vladimir, Andro Bakica, Maja Perčić, Ivana Jovanović.
Analysis of Technical Properties of Small Passenger Vessels in the Mediterranean Sea with Overview of Future Market Needs.
Presentation – 1st Kotor International Maritime Conference (KIMC 2021), Kotor, Montenegro, November 26-27, 2021.
 8. Nikola Vladimir.
Development and Implementation of Innovative Early Warning Systems for Marine Pollution for the Croatian Aquaculture Sector.
Invited Talk – 6th Forum of the EU Strategy for the Adriatic and Ionian Region (EUSAIR): Along the Coasts of the Shared Sea, Izola, Slovenia, May 11-12, 2021. (Participation in online mode).
 9. Ivo Senjanović, Nikola Vladimir, Šime Malenica.
An Overview of Ship Hydroelasticity.
Invited Plenary Lecture – 7th International Conference on Marine Structures – MARSTRUCT 2019, Dubrovnik, Croatia, May 2019.
 10. Nikola Vladimir.
Application of Finite Element Analysis to Ship Structural Design.
Seminar – Department of Mechanical Engineering, University of Ulsan, Ulsan, Korea, October 15, 2018. (invited by: S.J. Chu)
 11. Nikola Vladimir.
Energy Efficiency and Environmental Effects of Ships with Respect to new IMO Regulations.
Seminar – Division of Naval Architecture and Ocean Systems Engineering, Korea Maritime and Ocean University, Busan, Korea, October 12, 2018. (invited by: S.J. Lee)
 12. Nikola Vladimir, Ivo Senjanović, Neven Alujević.
Use of Aged Tankers as Offshore and Port Oil Storages.
Invited Talk – Offshore Korea Technical Conference “New Normal: Challenge and Response”, Busan, Korea, October 10, 2018.
 13. Nikola Vladimir.
Use of Aged Tankers to Increase Offshore and Port Oil Storage Capacities – Practical Example.
Seminar – Subsea cable Umbilical Riser Flowline Research and Development Center (SURF), Mokpo National University, Mokpo, Korea, October 08, 2018. (invited by: C.S. Shim)
 14. Nikola Vladimir.
CSF Installation Research Project Green Modular Passenger Vessel for Mediterranean (GRiMM). (in Croatian)
Invited Talk – Annual General Meeting of the Scientific Council for Maritime Affairs, Croatian Academy of Sciences and Arts, Zagreb, Croatia, March 16, 2018.
 15. Nikola Vladimir.
Strength Evaluation of Ships & Offshore Floating Units within Direct Calculation Approach.
Seminar – Subsea cable Umbilical Riser Flowline Research and Development Center (SURF), Mokpo National University, Mokpo, Korea, October 20, 2017. (invited by: C.S. Shim)
 16. Nikola Vladimir.
Strength Evaluation of Large Ships within Direct Calculation Approach.
Seminar – Division of Naval Architecture and Ocean Systems Engineering, Korea Maritime and Ocean University, Busan, Korea, October 17, 2017. (invited by: S.J. Lee)
 17. Nikola Vladimir.
Strength Evaluation of Large Ships within Direct Calculation Approach.
Seminar – Department of Naval Architecture and Ocean Engineering, Pusan National University, Busan, Korea, October 16, 2017. (invited by: K.H. Jung)
 18. Šime Malenica, Nikola Vladimir.
Hydro-Structure Interactions for Off-Shore and Naval Applications, Tools and Methodologies.
Seminar – University of Naples Federico II (Dipartimento di Ingegneria industriale), Naples, Italy, February 16 & 17, 2017. (invited by: E. Begović)
 19. Nikola Vladimir.
Evaluation of Structural Design of Large Ships by Direct Calculations.
Seminar – Department of Naval Architecture and Ocean Engineering, Pusan National University, Busan, Korea, February 01, 2017. (invited by: D.S. Cho)

20. Nikola Vladimir.
Overview of Recent Developments in the Field of Naval Architecture at UNIZAG FSB with Emphasis to Advanced Vibration Analyses of Ships.
Lecture – University of Montenegro, Maritime Faculty of Kotor, Kotor, Montenegro, November 15, 2016. (supported by ERASMUS+ mobility programme).
21. Nikola Vladimir.
Design of Ultra Large Ships Based on Direct Calculation Methodologies.
Seminar – Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea, January 22, 2016. (invited by: K.H. Lee)
22. Nikola Vladimir.
Studies on the Advanced Hydroelastic Analysis for Marine Structures.
Seminar – Hyundai Heavy Industries Co., Ltd., Ulsan, Korea, January 18, 2016. (invited by: H.I. Im)
23. Young Myung Choi, Šime Malenica, Nikola Vladimir, Charaf Ouled Housseine, Sun Hong Kwon.
Hydroelasticity Analysis for Bottom-Mounted Vertical Circular Cylinder by Considering Sloshing Effect.
Talk – 2015 Summer Workshop of Ship & Offshore Fluid Research Committee – SNAK Korea, Jeju-do, Korea, September 17, 2015.
24. Nikola Vladimir, Marko Tomić, Ivo Senjanović.
Mathematical Model of Ship Structure with its Application in the Hydroelastic Analysis. (in Croatian)
Lecture – Scientific Meeting “Advanced Methods in Design of Ultra Large Ships – Overview of EU FP7 Project TULCS (Tools for Ultra Large Container Ships) Outcomes”, Croatian Academy of Sciences and Arts, Zagreb, Croatia, May 30, 2014.
25. Nikola Vladimir, Ivo Senjanović, Šime Malenica.
Science and Industry in the Field of Naval Architecture in South Korea. (in Croatian)
Invited Talk – Annual General Meeting of Scientific Council for Maritime Affairs, Croatian Academy of Sciences and Arts, Zagreb, Croatia, March 28, 2014.
26. Nikola Vladimir.
Hydroelasticity of Ship Structures – Development and Application of Beam and 3D Hydroelastic Models.
Lecture - University of Ulsan, School of Naval Architecture and Ocean Engineering, Ulsan, Korea, January 22, 2014. (invited by: W.C. Koo)
27. Ante Šestan, Nikola Vladimir, Ivica Ančić.
Energy Efficiency Design Index (EEDI) and Ship Energy Efficiency Management Plan (SEEMP). (in Croatian)
One-day Seminar – University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, February 08, 2013.
28. Nikola Vladimir.
Hydroelastic Analysis of Ship Structures.
Seminar - Department of Naval Architecture and Ocean Engineering, Pusan National University, Busan, Korea, January, 2013. (invited by: S.H. Kwon & D.S. Cho)
29. Nikola Vladimir.
Hydroelasticity of Ships and Offshore Structures – Selected Issues. (in Croatian)
Lecture - Croatian Society of Mechanics, Zagreb, Croatia, April 19, 2012. (invited by: H. Kozmar)

Other Public Events/Activities

1. Participation at Panel Discussion on:
Green Transition of Islands through Environmentally Sustainable Maritime Transportation.
Organized by the Public Institution Development Agency of Šibenik – Knin County within the Conference on Sustainable Innovations in Blue Sector, Šibenik, Croatia, May 20, 2022.

Supervision of theses

1. Dario Haramustek.
Maintenance Analysis of Ship Systems: FMEA-BN Model. (in Croatian)
M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval

- Architecture, Zagreb, Croatia, December 09, 2024.

2. Ivan Bašić.
Analysis of Maritime Accidents by Fault Tree Analysis and Monte Carlo Simulations. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, December 09, 2024.
3. Bruno-Srećko Mateljak.
Reliability Analysis of Ship Systems: Mapping Fault Tree Analysis into Bayesian Network. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 16, 2024.
4. Luka Matković.
Reduction of Carbon Footprint of Small-Scale Fishing Vessels. (in Croatian, Co-supervision with: M. Perčić)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 16, 2024.
5. Marija Grmača.
Application of Alternative Fuels in Power System of a Cruise Ship. (in Croatian, Co-supervision with: M. Perčić)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 16, 2024.
6. Lovro Halavanja.
Electrification of a Ferry in the Croatian Short-Sea Shipping Sector. (in Croatian, Co-supervision with: M. Perčić)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 16, 2024.
7. David Grgorinić.
Electrification of a Purse Seiner in the Croatian Fishing Sector. (in Croatian, Co-supervision with: M. Perčić)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 16, 2024.
8. Toni Zovko.
Design of a Ship Power System of a Ferry in the Croatian Short-Sea Sector. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, May 15, 2024.
9. Ivan Tomljenović.
Numerical Analysis of Self-Propulsion of a Bulk Carrier with Wind Assisted Propulsion. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, December 06, 2023.
10. Marija Grmača.
Determination of Ship Fuel Consumption. (in Croatian)
 B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, March 02, 2023.
11. Luka Pražić.
Assessment of Potential of Alternative Fuels in Marine Sector. (in Croatian)
 B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, March 02, 2023.
12. Bruno-Srećko Mateljak.
Analysis of Technical Properties of Fishing Vessels in the Adriatic Sea. (in Croatian)
 B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, March 02, 2023.
13. Tomislav Brajko.
A System for Ice Production on Board Fishing Vessels. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, December 16, 2022.
14. Ita Kajfeš.
Noise Assessment of a Polar Expedition Cruise Vessel. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, December 16, 2022.
15. Andro Bakica.
Numerical Method for the Evaluation of the Structural Response of Ship Appendices.

- Ph.D. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 22, 2022. – *Summa Cum Laude*
16. Vinko Fabris.
Techno-Economic Assessment of Electrification of a Purse Seiner. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 20, 2022.
 17. Maja Perčić.
A Procedure for Improving the Energy Efficiency and Environmental Performance of Short Sea and Inland Waterway Vessels.
 Ph.D. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 11, 2022. – *Summa Cum Laude*
 18. Lovro Ante Rebić.
Analysis of Energy Efficiency of Fishing Vessels. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, December 17, 2021.
 19. Antonio Perašin.
Experimental Determination of Working Characteristics of a Centrifugal Pump. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 16, 2021.
 20. Davor Piljić.
Hydrogen as an Alternative Fuel in Ship Power Systems. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, December 04, 2020.
 21. Tomislav Brajko.
Response of a Vertical Cylinder Subjected to Hydrodynamic Loading. (in Croatian)
 B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, September 24, 2020.
 22. Ivan Vujnović.
Usage of Alternative Fuels in Marine Power Systems. (in Croatian)
 B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, September 24, 2020.
 23. Ita Kajfeš.
Comparative Analysis of Energy Efficiency Design and Operational Indexes of a Ro-Ro Passenger Ship. (in Croatian)
 B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, September 23, 2020.
 24. Vinko Fabris.
Carbon Footprint Assessment of a Ferry. (in Croatian)
 B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, September 23, 2020.
 25. Peevesh Sharma Gungadin.
Analysis of Carbon Footprint of an Inland Waterway Passenger Ship. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 14, 2020.
 26. Hrvoje Brečić.
Free Vibration Analysis of Ship Energy Saving Devices. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 14, 2020.
 27. Juraj Trogrlić.
Life Cycle and Cost Assessment of Different Power System Configurations of a Passenger Ship. (in Croatian)
 M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 13, 2020.
 28. Mateo Jelić.
Carbon Footprint Assessment of a Purse Seiner. (in Croatian)
 B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, February 27, 2020.
 29. Davor Piljić.
Energy Efficiency Design Index of a Bulk Carrier. (in Croatian)
 B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, March 01, 2019.
 30. Ante Rosandić.

- Hydroelastic Response of 19000 TEU Ultra Large Container Ship According to the WhiSp Methodology.** (in Croatian)
M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, December 07, 2018.
31. Marko Mikulec.
Application of the Hybrid Statistical Energy Analysis in the Noise Level Assessment on Board Ships. (in Croatian)
M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 12, 2018.
32. Hana Tudor.
Techno-Economic Assessment of New Marine Engine Development with High Noise and Vibration Performance.
M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 21, 2017.
33. Ivan Lončar.
Noise Prediction on Board Ro-Ro Passenger Ship. (in Croatian)
M.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, July 21, 2017.
34. Hrvoje Brečić.
Energy Efficiency Design Index of HHI SkyBench™ 19000 TEU Ultra Large Container Ship. (in Croatian)
B.Sc. thesis, University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, Croatia, March 02, 2016.

Research & Development Projects

- 01/2025 – 12/2030 **Young Researchers' Career Development Project – Training New Doctoral Students**, Croatian Science Foundation (Call No. NPOO-DOK-2023-10), Principal Investigator: N. Vladimir (UNIZAG FSB).
- 01/2025 – 12/2026 **Research on Key Technologies of Net Zero Greenhouse Gas Emissions in Shipping Industry**, Croatian-Chinese Bilateral Project with Wuhan University of Technology (WUT), funded by Ministry of Science and Education of Croatia, Principal Investigators: N. Vladimir (UNIZAG FSB) & A. Fan (WUT).
- 09/2024 – 02/2027 **Green Corridors for Carbon-Neutral Cruise and Ferry Shipping in the ADRIAN Region (GREENROUTES)**, INTERREG ADRIAN Project, Coordinator: D. Nikolić, University of Montenegro, Faculty of Maritime Studies Kotor, Montenegro, Principal Investigator at UNIZAG FSB: N. Vladimir.
- 09/2024 – 08/2025 **Possibilities of Establishing Green Propulsion Shipping Routes on Rivers and Seas (Green-Pro)**, INTERREG DANUBE Project, Seed Money Facility Call, Coordinator: D. Nikolić, University of Montenegro, Faculty of Maritime Studies Kotor, Montenegro, Principal Investigator at UNIZAG FSB: N. Vladimir.
- 2024 **Decarbonization of Ships for Small-Scale Fisheries**, Short-term research grant for year 2024 approved by University of Zagreb (No. 0650-10-5), Principal Investigator: N. Vladimir (UNIZAG FSB).
- 2023 **Dynamics of Active and Rotating Structures**, Short-term research grant for year 2023 approved by University of Zagreb (No. 0230-10-2), Principal Investigator: N. Alujević (UNIZAG FSB).
- 11/2022 – 04/2026 **Hybrid Tandem Catalytic Conversion Process Towards Higher Oxygenate E-Fuels (E-TANDEM)**, granted by the European Commission, HORIZON-RIA Project (Project No. 101083700), Coordinator: G. Prieto, Spanish Research Council (CSIC) & Polytechnic University of Valencia (UPV), Valencia, Spain, Principal Investigator at UNIZAG FSB: N. Vladimir.
- 08/2022 – 12/2023 **Hybrid Energy Systems of Fishing Vessels (HENSUS)**, granted by the Ministry of Agriculture, Directorate of Fisheries, Republic of Croatia and co-funded by the European Maritime and Fisheries Fund of the European Union (Award No. UP/I-324-01/21-01/2273), Principal Investigator: N. Vladimir (UNIZAG FSB).
- 01/2022 – 12/2023 **Research Center for Intelligent, Innovative, Environmentally Friendly and Sustainable Mariculture (INTEL-MARIC)**, granted by the Ministry of Agriculture, Directorate of Fisheries, Republic of Croatia and co-funded by the European Maritime and Fisheries Fund of the European Union (Award No. UP/I-324-01/21-01/385), Principal Investigator: N. Vladimir (UNIZAG FSB).

2022	Dynamics of Active and Rotating Structures , Short-term research grant for year 2022 approved by University of Zagreb (No. 0230-10-2), Principal Investigator: N. Alujević (UNIZAG FSB).
2021	Dynamics of Active and Rotating Structures , Short-term research grant for year 2021 approved by University of Zagreb (No. 0230-10-2), Principal Investigator: N. Alujević (UNIZAG FSB).
12/2020 – 12/2023	Improvement of High-Efficiency Welding Technology (ImproveWE) , granted by the European Regional Development Fund (ERDF), Operational programme Competitiveness and Cohesion 2014-2020, Priority axis: Strengthening the Economy through Research and Innovation (No. KK.01.1.1.1.07.0076), Principal Investigator: Z. Tonković (UNIZAG FSB).
11/2020 – 10/2024	Young Researchers' Career Development Project – Training New Doctoral Students , Croatian Science Foundation (Call No. DOK–2020–01), Principal Investigator: N. Vladimir (UNIZAG FSB).
09/2020 – 09/2023	Development of LNG System for the Ships Powered by Dual Fuel Engines (FO/LNG) , granted by the European Regional Development Fund (ERDF), Operational programme Competitiveness and Cohesion 2014-2020, Priority axis: Strengthening the Economy through Research and Innovation (No. KK.01.2.2.03.0022), Principal Investigator: V. Slapničar (UNIZAG FSB).
04/2020 – 03/2023	Sector Adaptive Virtual Early Warning System for Marine Pollution (SEAVIEWS) , INTERREG ADRION Project, Coordinator: N. Ventikos, National Technical University of Athens (NTUA), Greece, Principal Investigator at UNIZAG FSB: N. Vladimir.
01/2020 – 12/2023	Energy Efficient and Environmentally Friendly Power System Options for Inland Green Ships , Croatian-Chinese Bilateral Project with Wuhan University of Technology (WUT), funded by Ministry of Science and Education of Croatia, Principal Investigators: N. Vladimir (UNIZAG FSB) & A. Fan (WUT).
01/2020 – 12/2022	Autonomous Auxiliary Fishing Vessel (APROPO) , granted by the Ministry of Agriculture, Directorate of Fisheries, Republic of Croatia and co-funded by the European Maritime and Fisheries Fund of the European Union (Award No. 324-01/19-01/968), Principal Investigator: N. Vladimir (UNIZAG FSB).
01/2020 – 12/2021	Integration of High Share of Renewables into the Aquaculture Systems (IN AQUA) , granted by the Ministry of Agriculture, Directorate of Fisheries, Republic of Croatia and co-funded by the European Maritime and Fisheries Fund of the European Union (Award No. 324-01/19-01/1178), Principal Investigator: N. Vladimir (UNIZAG FSB).
2020	Dynamics of Active and Rotating Structures , Short-term research grant for year 2020 approved by University of Zagreb (No. 0230-10-1), Principal Investigator: N. Alujević (UNIZAG FSB).
02/2019 – 12/2019	Structural Integrity of the Energy Saving Devices (ESD) of the type Pre-Swirl Stator (PSS) and Flow Control Fin (FCF) , Joint Research Project with Hyundai Heavy Industries Co., Ltd., Ulsan, Republic of Korea, Principal Investigator: N. Vladimir (UNIZAG FSB).
2019	Aquaculture Systems with high Share of Renewably Energy Sources , Short-term research grant for year 2019 approved by University of Zagreb (No. 0650-10-4), Principal Investigator: N. Vladimir (UNIZAG FSB).
10/2018 – 09/2022	Young Researchers' Career Development Project – Training New Doctoral Students , Croatian Science Foundation (Call No. DOK–01–2018), Principal Investigator: N. Vladimir (UNIZAG FSB).
03/2018 – 07/2023	Green Modular Passenger Vessel for Mediterranean (GRiMM) , Croatian Science Foundation (No. UIP–2017–05–1253), Principal Investigator: N. Vladimir (UNIZAG FSB).
2018	Design of LNG Ships – Development of Design Tools and Methodologies for Direct Calculations , Short-term research grant for year 2018 approved by University of Zagreb (No. 0650-10-3), Principal Investigator: N. Vladimir (UNIZAG FSB).
04/2017 – 03/2021	Wind and Sea Loads on Energy Structures (WESLO) , Croatian Science Foundation (No. 2016–06–2017), Principal Investigator: H. Kozmar (UNIZAG FSB).
2017	Advanced Design Models for the Liquefied Natural Gas Carriers with High Level of Safety and Energy Efficiency , Short-term research grant for year 2017 approved by University of Zagreb (No. 0650-10-2), Principal Investigator: N. Vladimir (UNIZAG FSB).

2016	Safety, Energy Efficiency and Environmental Eligibility of Liquefied Natural Gas Carriers , Short-term research grant for year 2016 approved by University of Zagreb, Principal Investigator: N. Vladimir (UNIZAG FSB).
03/2015 – 09/2015	Springing and Whipping Analysis of HHI SkyBench™ Container Carrier , Joint Research Project with Hyundai Heavy Industries Co., Ltd., Ulsan, Republic of Korea, Principal Investigator: N. Vladimir (UNIZAG FSB).
2015	Wind Effects on Structures and Vehicles , Short-term research grant for year 2015 approved by University of Zagreb (Application No. TP067), Principal Investigator: H. Kozmar (UNIZAG FSB).
09/2011 – 02/2021	Technology for Onboard Equipment-Induced Underwater Radiated Noise Analysis and Evaluation , funded by Global Core Research Center for Ships and Offshore Plants (GCRC–SOP) – Republic of Korea (No. 2011–0030669), Principal Investigator: D.S. Cho, Pusan National University, Principal Investigator at UNIZAG FSB: N. Vladimir.
06/2009 – 11/2012	Tools for Ultra Large Container Ships (TULCS) , EU FP7 Project (No. 234146), Coordinator: Š. Malenica, Bureau Veritas, Paris, France, Principal Investigator at UNIZAG FSB: I. Senjanović.
06/2008 – 10/2013	Load and Response of Ship Structures , funded by the Croatian Ministry of Science, Education and Sports (No. 120–1201703–1704), Project Leader: I. Senjanović (UNIZAG FSB).

Other Projects

10/2024 – 10/2028	Decarbonising Waterborne Transportation (DeWaTra) , European Cooperation in Science & Technology (COST Action CA23159), Role: Leader of Working Group WG5 Onboard Decision Support Systems for Energy-Efficient Ship Operation, Main Proposer: C. Guedes Soares (Instituto Superior Técnico, Lisbon, Portugal).
10/2024 – 06/2026	ZEInnovation HUB Digital Platform , granted by the Ministry of Science and Education of the Republic of Croatia and Croatian Agency for SMEs, Innovations and Investments to Center of Technology Transfer llc., Zagreb, Croatia (No. NPOO.C3.2.R3-I1.02.0022), Project Leader: T. Aleksandrov Fabijanić (Center of Technology Transfer llc.).
06/2020 – 12/2023	Network of Fishermen Organizations and Research Institutions (MORZ) , granted by the Ministry of Agriculture, Directorate of Fisheries, Republic of Croatia and co-funded by the European Maritime and Fisheries Fund of the European Union (Award No. 324-01/20-01/1249), Project Leader: N. Vladimir (UNIZAG FSB).
03/2019 – 09/2021	Innovations in Entrepreneurship through Education about European Structural and Investment Funds (ESIFIP) , Project funded by the European Social Fund, (No. UP.01.3.1.01.0046), Project Leader: I. Ančić / N. Vladimir (UNIZAG FSB).
03/2013 – 06/2014	Inclusion for Employment (Engagement of Experts to design Syllabi, Teaching and Learning Resources of Malta College of Arts, Science and Technology and to produce course packs), EU ESF Project (funded by the European Social Fund), (No. ESF 3.102), Key Expert for Maritime Industry: N. Vladimir (UNIZAG FSB).

Institutions

	University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture (UNIZAG FSB), Department of Naval Architecture and Ocean Engineering, Chair of Marine Engineering, Zagreb, Croatia
Since 10/2020	Associate Professor
06/2015 – 09/2020	Assistant Professor
02/2012 – 05/2015	Senior Researcher
01/2008 – 01/2012	Junior Researcher
	Center of Technology Transfer LLC., Zagreb, Croatia
Since 10/2024	Scientific Adviser

Selected Institutional Roles

10/2024 –	Vice Chairman of the Committee for Postgraduate Studies (UNIZAG FSB)
10/2020 –	Member of the Committee for Strategy (UNIZAG FSB)
10/2018 –	Chairman of the Committee for International Projects (UNIZAG FSB)
10/2018 – 09/2024	Member of the Personnel Commission (UNIZAG FSB)
10/2017 –	Head of Chair of Marine Engineering (UNIZAG FSB)
10/2016 – 09/2022	Member of the Committee for Study Programs (UNIZAG FSB)
12/2013 – 09/2017	Head of Laboratory for Marine Engineering (UNIZAG FSB)