

List of Publications – Dr Sunil Kumar P G

Journal Publications:

1. KV Ramakrishnan, **P G Sunil Kumar** – ‘Applications of Sandwich Plate System for Ship Structures’, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684, p-ISSN: 2320-334X, PP 83-90. (2016)
2. S Sathish Kumar, **P G Sunil Kumar** - ‘Ultimate Strength Analysis of Ship Structures’ International Journal of Design and Manufacturing Technology (IJDMT), ISSN 0976 – 6995 (Print) ISSN 0976 – 7002 (Online) Volume 5, Issue 3, September - December (2014).
3. A.K. Sujith, A. Mathew, S. Shajan & S. Pai G, **P G Sunil Kumar** - ‘Development of autonomous underwater vehicle’, Marine Technology and Ocean Engineering Series Vol 3, Sustainable Development and Innovations in Marine Technologies – Georgiev & Guedes Soares (eds) © 2020 Taylor & Francis Group, London, ISBN 978-0-367-40951-7 pp 380-385 (Scopus)
4. Ajith P.J, T.Bangar Raju, B.K.Chaturvedi, **P G Sunil Kumar**. - ‘Review of energy efficiency in offshore vessels’ International Journal of Research and Analytical Reviews (IJRAR), December 2018, Volume 5, Issue 12, E-ISSN 2348-1269, P- ISSN 2349-5138, pp 231-245
5. Pooja C, Allwyn Sebastian M, Aldrin Benher, Abijith Shibu, **Sunil Kumar P G**, ‘Recent Developments in Stealth Considerations for Surface Warship Design’ GRD Journals-Global Research and Development Journal for Engineering, Volume 4, Issue 2, January (2019), ISSN: 2455-5703, pp 6-10
6. Pooja C, **Sunil Kumar P G**, ‘Renewable Energy and Alternative Fuels in Maritime Field’, International Journal of Latest Trends in Engineering and Technology , Vol.(17), Issue(4), October 2020, pp.013-017, DOI: <http://dx.doi.org/10.21172/1.174.04>, e-ISSN:2278-621X
7. Nithi E Sadan, Akash P S, **Sunil Kumar P G**, ‘Biofouling impacts and toxicity of antifouling agents on marine environment: a qualitative study’, Journal of Sustainability, Agri, Food and Environmental Research, (ISSN: 0719-3726), 10(X), 2022.
8. Aravind K Mohan, Patric Paul, Geethika Dev, **Sunil Kumar P G**, ‘Microplastics as contaminants in marine environment’, Journal of Sustainability, Agri, Food and Environmental Research, (ISSN: 0719-3726), 10(X), 2022
9. Kiran George Varghese, Vinay Gopi Nair, Avinash Godey, **P. G. Sunil Kumar**, ‘A Study for Validating, Rectifying and Optimising the flow in the Test Section of a Circulating Water Channel’. Journal of Naval Architecture and Marine Engineering, Vol. 18 No. 2 (2021), PP 127-140, <http://dx.doi.org/10.3329/jname.v18i2.45982>. (SCI, Scopus)

Conference Papers

1. **P G Sunil Kumar**, C G Nandakumar, ‘Structural Reliability Analysis of Ships’, Marine and Offshore Engineering Technology Conference (MOETC) 2014, Automotive and Marine Engineering Technology, CTS, PAAET, Kuwait.
2. Abhijith KS, Aadith M, Adarsh K.S, Josna J, Sane S, Sreekumar Pai G, **P.G Sunil Kumar**, ‘Development of Underwater Drone, ROV Varuna’, Proceedings of the International Conference on Shipbuilding & Offshore Engineering 2018, (ICSOE 2018), October 25-26, 2018. Volume 1: ICSOE 2018, ISBN: 978-93-85434-72-3
3. **P G Sunil Kumar**, C G Nandakumar, ‘Risk Based Structural Reliability Analysis of Ships’, Frontiers of Construction Technology and Computational Mechanics 2018 (CTCM '18),
4. Abhijith KS, Aadith M, Adarsh K.S, Josna J, Sane S, Sreekumar Pai G, **P.G Sunil Kumar**, ‘Development of Autonomous Underwater Vehicle, AUV Varuna’, 4th Technological Congress – KETCON of KTU TECHFEST 2019, organised by APJ Abdul Kalam Technological University and Kerala State Council for Science, Technology and Environment, 15-17 February 2019. Adjudged as the Best Paper in Robotics section.
5. **P G Sunil Kumar**, Sohan Roy S K, ‘Role of E-Learning in Maritime Education’, Thirty Third National Convention of Marine Engineers, Institution of Engineers (India), Kochi 30-31 Aug 2019
6. Nikhita Menon, Silpa, **P G Sunil Kumar**, ‘Impacts of IMO Environmental Regulations on Ship Design and Construction’, Thirty Third National Convention of Marine Engineers, Institution of Engineers (India), Kochi 30-31 Aug 2019
7. Kiran George Varghese, Nair Vinay Gopi, Avinash Godey, **P G Sunil Kumar**, ‘Study of Flow in the Test Section of a Circulating Water Channel by Varying the Honey Comb Cross Section’, International Symposium on Marine Design and Construction 2019 (SMDC 2019)
8. Ann Mary, P.Y. Abia Azeen, Ashil John Aji, Rahul Babu and **P.G. Sunil Kumar**, ‘Latest developments in the use of composite materials in shipbuilding’, Maritime International Conference is being jointly organized by Indian Maritime University and Academy of Maritime Education and Training, Chennai, 4 - 5 November 2019.
9. Sandra K Anil, Arjun K R, **P G Sunil Kumar**, ‘Safety and Fire Protection Considerations in Ship Design’, National Conference on Safety and Fire Engineering, Organized by Division of Safety and Fire Engineering, School of Engineering , Cochin University of Science and Technology, Dec 2019
10. Innovation Mentoring ‘Autonomous Underwater Vehicle’, 4th Technological Congress of KTU TECHFEST 2019, organised by APJ Abdul Kalam Technological University, Kerala and Kerala State Council for Science, Technology and Environment, 15-17 February 2019. Won the third prize in Robotics section.

11. **P G Sunil Kumar**, C G Nandakumar, 'Standardisation in Shipbuilding', International Seminar on Nation Building through Shipbuilding, Federation of Indian Chambers of Commerce and Industry (FICCI), Indian Navy and National Maritime Foundation, July 25 - 26, 2019, pp 332-337.
12. Pooja C, **Sunil Kumar P G**, 'Renewable Energy and Alternative Fuels in Maritime Field', Blue Economy: Challenges and Opportunities in the Field of Marine Engineering, Annual Technical Volume of Marine Engineering Division Board, Volume III, 2020, pp 74-77.
13. Ann Mary, Athul Vinod, Jishnu S Sarma, **Sunil Kumar P G**, 'Sustainable Shipping Through Alternate Fuels and Renewable Technology', AICTE Sponsored National Conference on Sustainability in Performance Based Engineering Design and Construction, 4th - 6th August 2021
14. Athul Vinod, Jishnu S Sarma, Linda Perumal Johnson, **Sunil Kumar P G**, 'Concept Design of Autonomous Underwater Vessel Bio Mimicked From Black Marlin Fish', Third International Conference in Shipbuilding & Offshore Engineering 2021(ICSOE 2021), June 24-25, 2021.
15. Arunprasath P, Satheesh Babu P K, **Sunil Kumar P G**, V L Mangesh, 'Methodologies to be Followed to Minimize the Loss of Containers at Sea', Third International Conference in Shipbuilding & Offshore Engineering 2021(ICSOE 2021), June 24-25, 2021.
16. Linda Perumal Johnson, Jishnu S Sarma, Athul Vinod, **Sunil Kumar P G**, 'Numerical analysis of effect of bow shape of an anchor handling tug supply vessel through reverse engineering', Proceedings of the International Conference on Advances in Naval and Ocean Engineering. Nov 19-20, 2021
17. Avany B, Mereena Davis, **Sunil Kumar P G**, 'Ocean Thermal Energy Conversion : Aiming for a Clean Future', 34th National Convention of Marine Engineers and National Seminar on Contemporary Developments in Maritime Technologies, Institution of Engineers, India, Visakhapatnam, 2nd and 3rd December 2022.
18. Gokul A, Varsha VB, **Sunil Kumar P G**, 'Applications of Augmented Reality & Virtual Reality in Maritime Industry', 34th National Convention of Marine Engineers and National Seminar on Contemporary Developments in Maritime Technologies, Institution of Engineers, India, Visakhapatnam, 2nd and 3rd December 2022.
19. Jishnu Sarma, Linda Perumal Johnson, **Sunil Kumar P G**, 'Concept Design of Acoustically Stealthy Biomimicked Autonomous Underwater Vehicle', 34th National Convention of Marine Engineers and National Seminar on Contemporary Developments in Maritime Technologies, Institution of Engineers, India, Visakhapatnam, 2nd and 3rd December 2022.
20. Avany B, Mereena Davis, Rakhi R Nair, **Sunil Kumar P G**, 'Big Data Applications in Ship Recycling', Proceedings of International Conference on Multidisciplinary Approaches in Engineering Science and Humanities (ICMAESH'23) organized by Department of Science & Humanities, Sree Narayana Gurukulam College of Engineering Kadayiruppu, 28th & 29th April 2023, pp 89-94, ISBN: 978-81-956872-3-7

21. Arya Manoj, Abraham Joseph, **Sunil Kumar P G**, 'Biofuels in Marine Industry - A Way of Reducing Carbon Emissions', Proceedings of the International Conference on Energy Options for Cleaner Environment ICEOCE 2023, organized by Department of Electrical Engineering, Sree Narayana Gurukulam College of Engineering Kadayiruppu, 28th & 29th April 2023, pp 1-8, ISBN : 978- 81-956872-7-5
22. Neeraja Gopakumar, **Sunil Kumar P.G**, 'Hydrogen Fuelled Vessels For Decarbonizing Shipping Industry' Proceedings of the International Conference On Energy Options For Cleaner Environment ICEOCE 2023, organized by Department of Electrical Engineering, Sree Narayana Gurukulam College of Engineering Kadayiruppu, 28th & 29th April 2023, pp 15-20, ISBN : 978- 81-956872-7-5
23. Shifina Ayoob, Mohammed Sheril M, **Sunil Kumar P G**, 'Towards Effective Reduction of Ships Emissions', Proceedings of the International Conference on Energy Options for Cleaner Environment ICEOCE 2023, organized by Department of Electrical Engineering, Sree Narayana Gurukulam College of Engineering Kadayiruppu, 28th & 29th April 2023, pp 57-65, ISBN : 978- 81-956872-7-5
24. Avany B, Mereena Davis, **Sunil Kumar P G**, 'Towards Green Maritime Environment: Ocean Thermal Energy Conversion' Proceedings of the International Conference on Energy Options for Cleaner Environment ICEOCE 2023, organized by Department of Electrical Engineering, Sree Narayana Gurukulam College of Engineering Kadayiruppu, 28th & 29th April 2023, pp 66-70, ISBN : 978- 81-956872-7-5
25. Avany B, Mereena Davis, **Sunil Kumar P G**, 'Applications of Limit State Structural Analysis in Ship Design' Proceedings of the International Conference on Applied Research in Engineering, organized by Department of Mechanical Engineering, Sree Narayana Gurukulam College of Engineering Kadayiruppu, 26th & 27th April 2023, pp 1-5, ISBN : 978- 81-956872-17-3
26. Surya E S, Vishnu Vardhan S, Sunil Kumar P G, 'Design and Construction of Weed Harvesters for the Back Waters of Kerala', Proceedings of the International Conference on Applied Research in Engineering, organized by Department of Mechanical Engineering, Sree Narayana Gurukulam College of Engineering Kadayiruppu, 26th & 27th April 2023, pp 85-87, ISBN : 978- 81-956872-17-3
27. Mohammed Sheril M, Shifina Ayoob, **Sunil Kumar P G**, 'Hydrogen As A Marine Fuel', Proceedings of International Conference on Multidisciplinary Approaches in Engineering Science and Humanities (ICMAESH'23) organized by Department of Science & Humanities, Sree Narayana Gurukulam College of Engineering Kadayiruppu, 28th & 29th April 2023, pp 109-120, ISBN: 978-81-956872-3-7
28. Arya Manoj, Justin Paul Jose, **Sunil Kumar P G**, 'Measures to Minimize Parametric Rolling in Container Ships', 35th National Convention of Marine Engineers and National Conference on Recent Advances in Marine Engineering and Marine Systems, Institution of Engineers, India, Chennai, 11-12 September 2023.