Journal of Offshore Mechanics and Arctic Engineering

Guest Editorial

Special Issue: Carlos Guedes Soares Honoring Symposium

This Special Issue is dedicated to advances in marine technology and ocean engineering, including wave spectral and probabilistic models, floater dynamics and hydrodynamics, ship maneuvering and control, renewable offshore energy and offshore structures, ultimate and fatigue strength, collision and crashworthiness, collision and crashworthiness, structural reliability and risk-based maintenance, and maritime safety and human factors.

The present special issue of the *ASME Journal of Offshore Mechanics and Arctic Engineering* is a consequence of the Honoring Symposium for Professor Carlos Guedes Soares on Marine Technology and Ocean Engineering held in OMAE 2018, Madrid, Spain.

Carlos Guedes Soares is a Distinguished Professor of Instituto Superior Técnico, University of Lisbon, Portugal. He has been contributing exceptionally for many years to the scientific development of different topics in the field of Naval Architecture and Ocean Engineering and had a leading role in several areas of research at national and international levels.

Professor Guedes Soares graduated from the Portuguese Naval Academy in 1971 and completed his master studies in Naval Architecture and Marine Engineering and Civil Engineering at the Massachusetts Institute of Technology, from where he graduated with an Ocean Engineer degree in 1976. He received his PhD from the Norwegian Institute of Technology, University of Trondheim, Norway, in 1984 and his Doctor of Science from the Technical University of Lisbon in 1991.

Professor Guedes Soares joined the Technical University of Lisbon as a lecturer in 1980, and since 2000, he is a Professor and Coordinator of the Naval Architecture and Marine Engineering area at Instituto Superior Técnico, University of Lisbon. He is also a coordinator of the postgraduate, master, and doctoral degrees in Naval Architecture and Marine Engineering. Since 1994, he is the scientific coordinator of the Centre for Marine Technology and Ocean Engineering (CENTEC) of Instituto Superior Técnico, University of Lisbon.

Professor Guedes Soares has performed a wide and diversified set of international functions including the President of the International Maritime Association of the Mediterranean (IMAM) during the period 2005–2011 and 2017–2019; Founding Member, Secretary, Vice-President, and President of the European Safety and Reliability Association (ESRA) during the period 1987–2004; and chairman of the International Ship and Offshore Structures Congress during the period 2012–2015. Professor Guedes Soares has supervised 35 Postdoctoral Researchers, 50 PhD students, and 74 Master students and is currently supervising 11 Postdoctoral Researchers and 12 PhD students.

Professor Guedes Soares has coordinated a large number of national and international research projects focused on the marine environment (16 projects), ship dynamics and hydrodynamics (19 projects), marine structures (18 projects) and safety, reliability, and maintenance (six projects). He has also participated in several other national and international projects that are dealing with the marine environment (ten projects), ship dynamics and hydrodynamics (20 projects), marine structures (27 projects), maritime transportation (19 projects) and safety, reliability and maintenance (25 projects). Professor Guedes Soares has co-authored about 700 journal papers, in addition to being a co-editor of about 30 books.

There were about 120 papers presented during the symposium, out of which, some have been selected to be published in this issue, after the appropriate review process. This Special Issue of the *ASME Journal of Offshore Mechanics and Arctic Engineering* includes studies in the research areas where Carlos Guedes Soares has been very active in the last decades. We believe that this set of research papers acknowledges the various research areas in which Carlos Guedes Soares has been working and will be of interest to those who are studying and developing new methods in these areas.

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