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Hybrid use of probability and statistical technic for safety and collision risk assessment of vessel collision within inland waters

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Occurrence of a collision event exposes vessel owners and operators, as well as the public to risk. The nature of the threat can be worrisome; it may lead to loss of life, damage to the environment, disruption of operation and injuries. This paper discusses the use of statistical and Probability technique to analyse safety and environmental Risk for aversion of collision accident and efficient navigation of vessels within inland waterways. Also discussed is deduced generic risk mitigation option required for operational, societal, limit definition and technological change decision support for development of sustainable inland water transportation system (IWTS). The probability per year and accident consequence predicted is considered acceptable in maritime and offshore industry. The result is validated using statistical tools.

Biography

Sulaiman O. Olanrewaju has done his PhD in Mechanical Engineering with specialization in Marine Technology. He is chartered engineer with diverse academic and professional background. He has taught and mentored different courses and research projects on issue in maritime field. He is Associate Professor at University Malaysia Terengganu and visiting Professor at other University. Dr. Oladokun Sulaiman Olanrewaju is faculty member in the Department of Maritime Technology, Faculty of Maritime Studies and Marine Science, University Malaysia Terengganu. His specialization is in maritime energy and environment, sustainable maritime system design, risk and reliability for maritime and ocean systems. He is chartered engineer with diverse academic and professional background. He has taught and mentored courses and research projects on contemporary issues in maritime field. He published about 80 abstract and presentation in national and international conferences. He has authored and co-authored a total of about more than 120 publications which include proceeding papers, journal papers, and chapters in book, monograph, seminar papers and other types of academic publications. He has patent on marine green technology. He has authored five books in maritime science and technology field.

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