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 c. Vol, No., Bln Thn : 24, 3, Tahun 2016
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Semarang, 20 Juni 2019

Reviewer 2



Ojo Kurdi, S.Ti, M.T., Ph.D
 NIP. 197303171999031001
 Unit Kerja : S1 Teknik Mesin FT UNDIP

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Dr. Eng. Hartono Yudo, S.T., M.T.
 NIP. 197510211999031004
 Unit Kerja : S1 Teknik Perkapalan FT UNDIP

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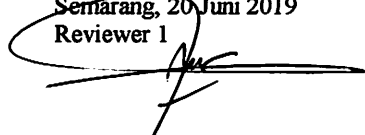
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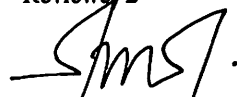
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Journal of Marine Science and Technology (Taiwan)
Volume 24, Issue 3, 2016, Pages 575-580

The development of new type free-fall lifeboat using Fluid Structure Interaction analysis (Article)

Zakki, A.F.^a, Windyandari, A.^b, Bae, D.M.^c

^aDepartment of Naval Architecture, Diponegoro University, Semarang, Central Java, Indonesia

^bVocational Program, Naval Architecture Department, Diponegoro University, Semarang, Central Java, Indonesia

^cDepartment of Naval Architecture and Marine System Engineering, Pukyong National University, Busan, South Korea

Abstract

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Freefall lifeboats provide a safe alternative to conventional lifeboats for emergency evacuation from ships and offshore platforms. The international regulations require that a lifeboat for free-fall launching should be able to give protection against impact accelerations when it is launched with its full occupants and equipment from at least the maximum designed height. Since the height of offshore structure to the water surface is significantly high, during the water entry phase the acceleration response of the free-fall lifeboat might cause an injury to the occupants. The special hull form design should be applied to reduce the acceleration. The aim of the research is to develop a new type freefall lifeboat for the evacuation system on offshore platform. The new hull form design is proposed and investigated, especially on the acceleration response due to slamming load. The Fluid Structure Interaction (FSI) analysis with the penalty coupling method is used for estimating the acceleration response. The numerical results were compared with the requirements of the IMO regulations.

SciVal Topic Prominence

Topic: Lifeboats | Ice | Water entry

Prominence percentile: 55.812



Author keywords

Acceleration response Fluid structure interaction analysis Freefall lifeboat Occupants safety

Indexed keywords

Engineering controlled terms:

Acceleration Drilling platforms Lifeboats Offshore structures Slamming (ships)

Engineering uncontrolled terms

Acceleration response Coupling methods Emergency evacuation Evacuation systems
Fluid structure interaction analysis International regulations Numerical results
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Sulaiman , Suharto , Hartono (2018) *International Journal of Mechanical Engineering and Technology*

The Study on Stability and Seakeeping Characteristics of the Glass Bottom Boat Trimaran in Karimunjawa Island

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Launch and impact of free-fall lifeboats. Part I. Impact theory
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analysis technique

Lee, S.-G. , Zhao, T. , Kim, G.-S.
(2013) *Proceedings of the
International Offshore and Polar
Engineering Conference*

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of a free-fall lifeboat using the
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doi: 10.1016/S0045-7825(99)00432-6
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🔗 Zakki, A.F.; Department of Naval Architecture, Diponegoro University, Semarang, Central Java, Indonesia;
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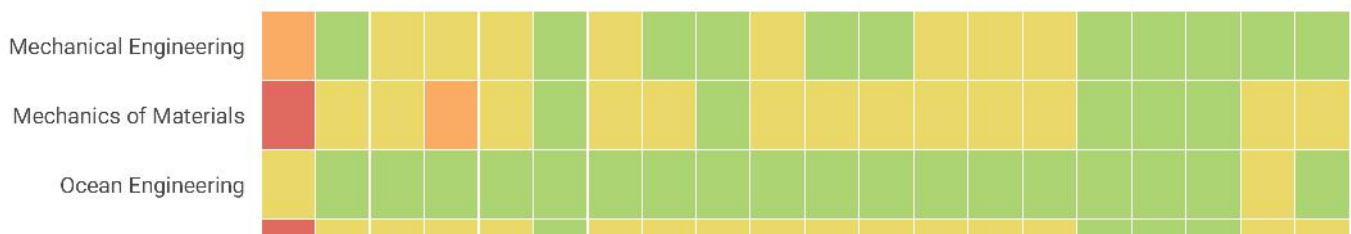


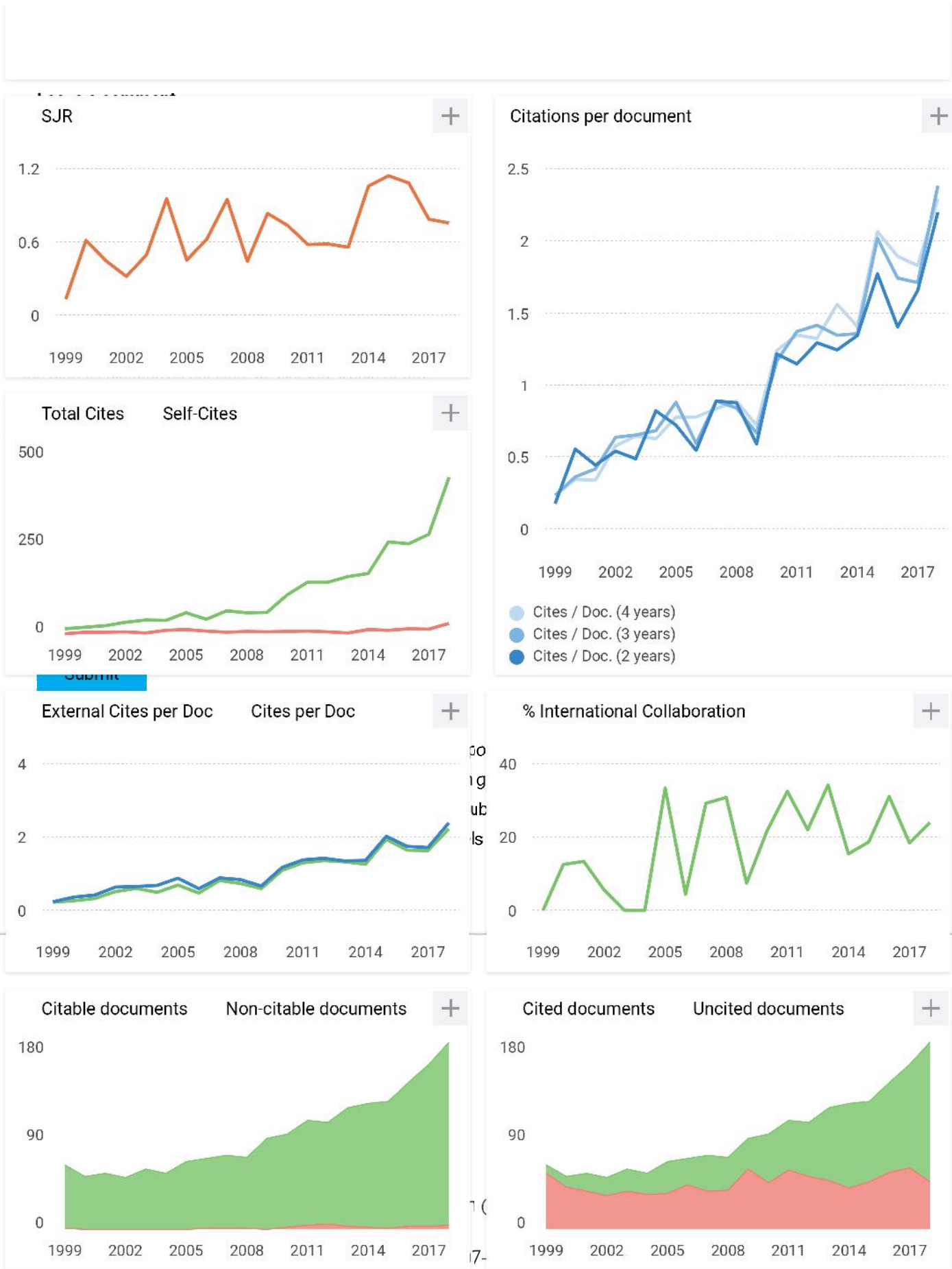
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Cheng Lin (Taiwan, R.O.C.)	Experimental Fluid Mechanics, Coastal Engineering, Nonlinear Wave Mechanics and Laser Measurement Technology E-mail: chenglin@nchu.edu.tw
Tai-Yuan Lin (Taiwan, R.O.C.)	Optoelectronics and Nanotechnology E-mail: tylin@mail.ntou.edu.tw
Chein-Shan Liu (Taiwan, R.O.C.)	Computational Mechanics E-mail: liucs@ntu.edu.tw
Stephen Liu (U.S.A.)	Underwater welding, Marine structural welding E-mail: stliu@mines.edu
Pi-Cheng Tung (Taiwan, R.O.C.)	Vibration and Noise Analysis, Automatic Control, Mechatronics E-mail: t331166@ncu.edu.tw
Shuen-Tai Ung (Taiwan, R.O.C.)	Maritime Risk Assessment E-mail: shuntai@mail.ntou.edu.tw
Shing-Hoa Wang (Taiwan, R.O.C.)	Mechanical Behavior of Materials, Welding and Joining E-mail: shwang@mail.ntou.edu.tw
Jenq-Lang Wu (Taiwan, R.O.C.)	Control Engineering E-mail: wujl@mail.ntou.edu.tw
Shun-Chang Yen (Taiwan, R.O.C.)	Fluid Mechanics, Combustion, Aerodynamics E-mail: scyen@ntou.edu.tw

Section B: Oceanography, Marine Biology, Fisheries Science, and Marine Ecology

Jyoti Chattopadhyaya (Sweden)	Molecular Design and Synthesis E-mail: jyoti@boc.uu.se
Chih-Shin Chen (Taiwan, R.O.C.)	Fisheries Management, Fish Population Dynamics E-mail: cschen@mail.ntou.edu.tw
Min-Te Chen (Taiwan, R.O.C.)	Marine Geosciences, Environmental Earth Sciences, Paleoceanography E-mail: mtchen@mail.ntou.edu.tw
Chang-Jer Wu (Taiwan, R.O.C.)	Molecular Biology and Virology E-mail: cjwu@mail.ntou.edu.tw
Chung-Ru Ho (Taiwan, R.O.C.)	Remote Sensing, Physical Oceanography, Global Climate Change E-mail: b0211@mail.ntou.edu.tw
Yi-Jay Chang (Taiwan, R.O.C.)	EcoInformatics, Biological Oceanography, Fisheries Oceanography, Zooplankton Ecology E-mail: yijay.chang@gmail.com
Hsiang-Wen Huang (Taiwan, R.O.C.)	Marine Ecosystem Conservation, Fisheries Science E-mail: Julia@ntou.edu.tw
Akira Ishikawa (Japan)	Harmful Algae E-mail: ishikawa@bio.mie-u.ac.jp

Shyn Shin Sheen (Taiwan, R.O.C.)	Aquaculture, Fish Diseases E-mail: shin@mail.ntou.edu.tw
Bonnie Sun Pan (Taiwan, R.O.C.)	Food Chemistry, Fish Processing E-mail: bonnie@mail.ntou.edu.tw
Akash Sastri (Canada)	Biological Oceanography E-mail: sastriakash@gmail.com
Kwang-Taso Shao (Taiwan, R.O.C.)	Marine Biology and Biodiversity E-mail: zoskt@gate.sinica.edu.tw
Jen Chieh Shiao (Taiwan, R.O.C.)	Fish Ecophysiology, Marine Biology E-mail: jcshiao@ntu.edu.tw
Shi-Yen Shiau (Taiwan, R.O.C.)	Aquaculture Nutrition E-mail: syshiau@mail.ntou.edu.tw
Atsushi Yamaguchi (Japan)	Marine Biology E-mail: a-yama@fish.hokudai.ac.jp

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Info:

[NTOU - National Taiwan Ocean University](#)

No. 2, Pei-Ning Rd., Keelung, Taiwan 202

TEL : 886-2-24622192 ext.2911 FAX : 886-2-24636964

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