

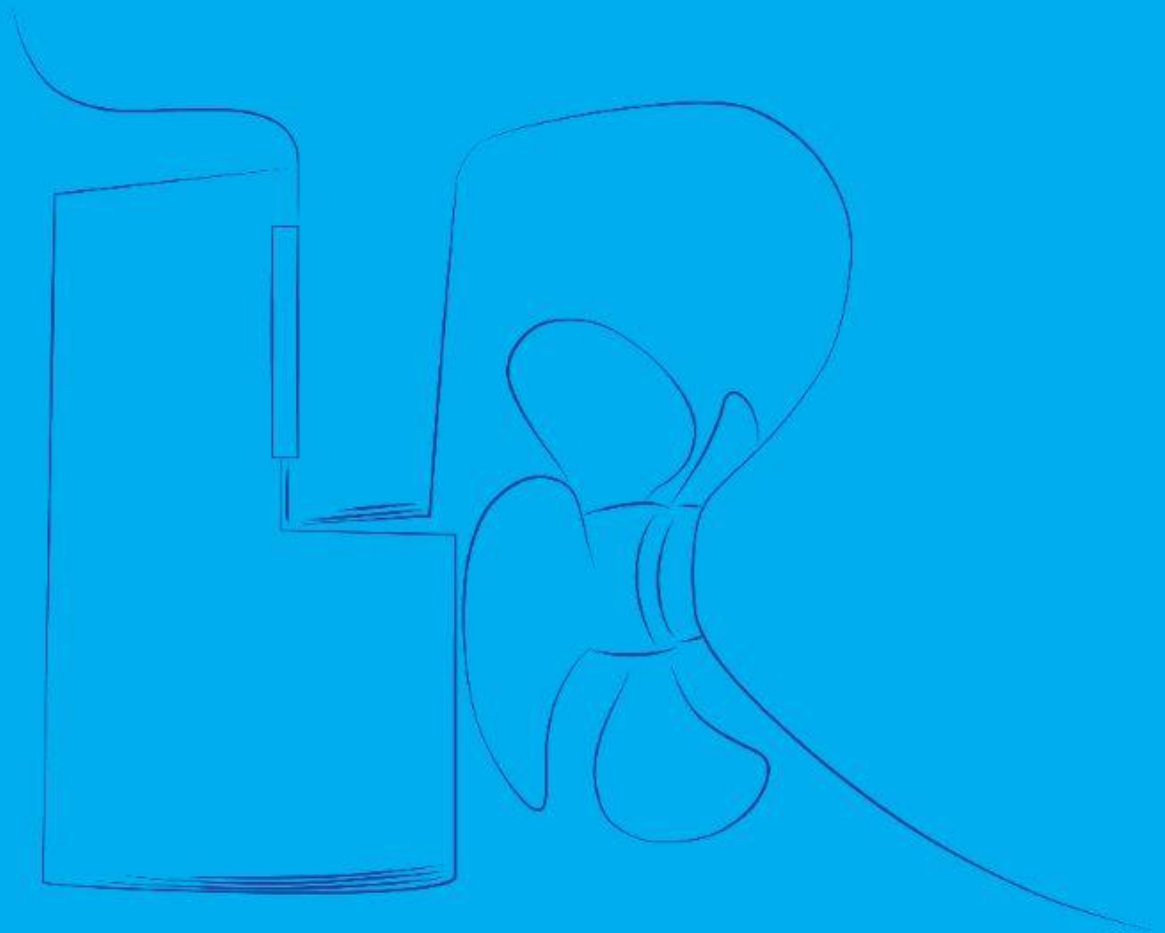
ISSN: 2541-5972 (print)

ISSN: 2548-1479 (online)

International Journal of

# MARINE ENGINEERING INNOVATION and RESEARCH

<http://iptek.its.ac.id/index.php/ijmeir>



**Published by:**



Department of Marine Engineering  
Institut Teknologi Sepuluh Nopember  
Surabaya, Indonesia



IMarEST  
Indonesia Branch

International Journal of Marine Engineering Innovation and Research	Vol. 4	No. 3	Page. 155-215	Surabaya September 2019	ISSN: 2541-5972 (print) ISSN: 2548-1479 (online)
---	--------	-------	---------------	----------------------------	---