

**LEMBAR**  
**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
**KARYA ILMIAH : PROSIDING**

Judul Karya Ilmiah : The Structural Response Investigation of Modular Pontoon Collar Floating Cage due to Current Load to Support Fish Farming Activities

Jumlah Penulis : 2 Orang

Status Pengusul : Penulis ke-2

Identitas Prosiding :

- a. Judul Prosiding : The 2nd International Joint Conference on Advanced Engineering and Technology (IJCAET 2017) and International Symposium on Advanced Mechanical and Power Engineering (ISAMPE 2017)
- b. ISBN/ISSN : eISSN: 2261-236X
- c. Thn Terbit, Tempat Pelaks. : 2017, Bali, Indonesia
- d. Penerbit/Organiser : EDP Sciences
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- f. Terindeks di (jika ada) : Scopus

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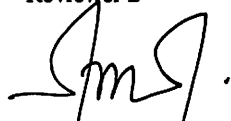
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b. Ruang lingkup dan kedalaman pembahasan (30%)	7	6	6,5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7	6	6,5
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	8	6	7
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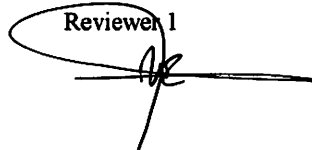
Semarang, 27 Juni 2019

Reviewer 2



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

Reviewer 1



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

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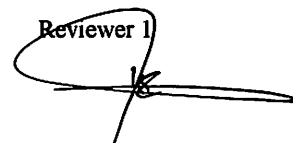
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a. Kelengkapan unsur isi prosiding (10%)	3,00		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00		7
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		7
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		8
<b>Total = (100%)</b>	<b>30,00</b>		<b>25</b>
<b>Nilai Pengusul = (40% x 25)= 10</b>			

Catatan Penilaian Paper oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi paper:**  
Artikel telah memenuhi unsur yang ditentukan oleh prosiding yang dituju
- Ruang lingkup dan kedalaman pembahasan:**  
Ruang lingkup dan pembahasan tentang respon struktur floating cage telah dilakukan dengan baik, pemodelan element jaring juga dapat digunakan sebagai referensi untuk penelitian mendatang.
- Kecukupan dan kemutakhiran data/informasi dan metodologi:**  
Novelty yang dimiliki cukup baik, metode yang digunakan bukan metode baru, namun untuk pemodelan elemen jaring cukup baik untuk kontribusi teori, indeks similarity cukup baik 21% (masuk dalam kriteria similaritas)
- Kelengkapan unsur dan kualitas terbitan:**  
Kualitas prosedia memiliki reputasi biasa dan memenuhi kelengkapan unsur terbitan

Semarang, 27 Juni 2019

Reviewer 1



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

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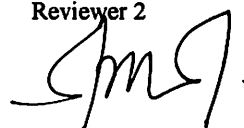
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b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00		6
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		6
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		6
<b>Total = (100%)</b>	<b>30,00</b>		<b>21</b>
<b>Nilai Pengusul = (40% x 21) = 8,4</b>			

Catatan Penilaian Paper oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi paper:**  
Kelengkapan dan kesesuaian sudah baik
- Ruang lingkup dan kedalaman pembahasan:**  
Ruang lingkup hanya berupa kajian biasa, pembahasan telah dilakukan dengan baik, indeks similaritas 21% (masih bisa diterima)
- Kecukupan dan kemutakhiran data/informasi dan metodologi:**  
Referensi yang digunakan cukup mutakhir tetapi perlu dilakukan penambahan, metodologi yang digunakan bersifat biasa
- Kelengkapan unsur dan kualitas terbitan:**  
Reputasi prosiding biasa, memenuhi kelengkapan unsur terbitan, SJR Index 0,15 dan H Index 12

Semarang, 27 Juni 2019

Reviewer 2



Ojo Kurdi, S.T., M.T., Ph.D  
NIP. 197303171999031001  
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Volume 159, 30 March 2018, Article number 02054  
2nd International Joint Conference on Advanced Engineering and Technology, IJCAET 2017 and International Symposium on Advanced Mechanical and Power Engineering, ISAMPE 2017; Bali; Indonesia; 24 August 2017 through 26 August 2017; Code 135617

## The Structural Response Investigation of Modular Pontoon Collar Floating Cage due to Current Load to Support Fish Farming Activities (Conference Paper)

(Open Access)

Windyandari, A.<sup>a</sup>, Zakki, A.F.<sup>b</sup> ✉ 🔍

<sup>a</sup>Industrial Engineering Department, Vocational School, Diponegoro University, Indonesia

<sup>b</sup>Naval Architecture Department, Engineering Faculty, Diponegoro University, Indonesia

### Abstract

View references (9)

The size of net cages increases rapidly, reaching volumes above current experience. More exposed locations are used for fish production, introducing higher loads on the net cage and fish farm from strong water currents and large waves. Strength analysis can be a useful tool for development of net-cage designs to avoid escape of fish and ensure sufficient volume for good fish welfare and water quality. The main objectives of this research are to investigate the structural response of modular pontoon collar floating cage due to the current load to support the fish farming activities. Strength analysis was performed using commercial explicit finite element software to calculate the distribution of loads in the net cage due to current, weights and gravity. The net cage was modeled using truss elements that represented several parallel twines. Sub-elements allowed the trusses to buckle in compression, and only negligible compressive forces were seen in the numerical results. Resulting drag loads and cage volume were shown to be dependent on the net cage size and collar shape. © The Authors, published by EDP Sciences, 2018.

### SciVal Topic Prominence ⓘ

Topic: Aquaculture | Mooring | Fish cage

Prominence percentile: 80.197 ⓘ

### Indexed keywords

Engineering controlled terms:

- Finite element method
- Loads (forces)
- Pontoons
- Quality control
- Trusses
- Water quality

Engineering uncontrolled terms

- Compressive forces
- Explicit finite elements
- Fish production
- Numerical results
- Strength analysis
- Structural response
- Truss elements
- Water currents

Engineering main heading:

- Fish

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2 Moe, H., Fredheim, A., Heide, M.  
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3 Løland, G.  
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4 Taeho, K., Jihoon, L., Fredriksson, D.W., Judson, D., Andrew, D., Kiyoung, M.  
(2014) *Aquaculture Eng*, p. 63.


5 Kristiansen, T., Faltinsen, O.M.  
(2014) *J. Fluids and Struct.*

6 Kristiansen, T., Faltinsen, O.M.  
(2014) *J. Fluids and Struct.*, p. 34.

7 Li, L., Shixiao, F., Yuwang, X.  
(2013) *Marine Structures*, p. 34.

8 Heidi, M., Fredheim, A., Hopperstad, O.S.  
(2010) *J. Fluids and Struct.*, p. 26.

9 Heidi, M., Olsen, A., Hopperstad, O.S., Jensen, O., Fredheim, A.  
(2007) *Aquaculture Eng*, p. 37.

 Zakki, A.F.; Naval Architecture Department, Engineering Faculty, Diponegoro University, Indonesia;

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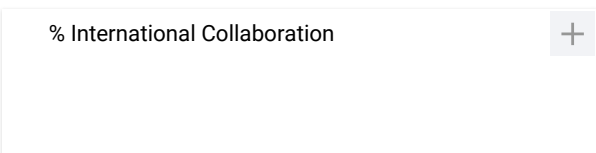
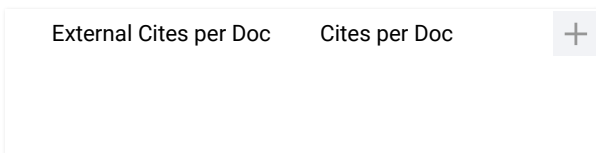
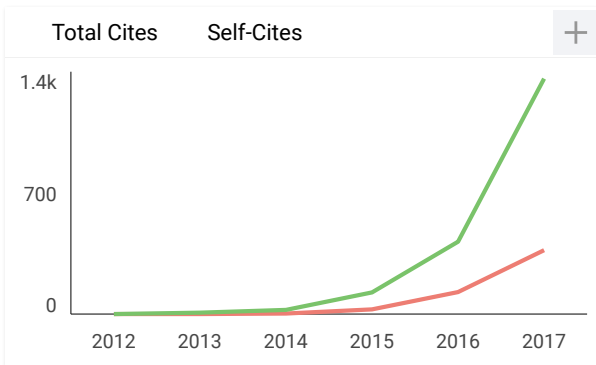
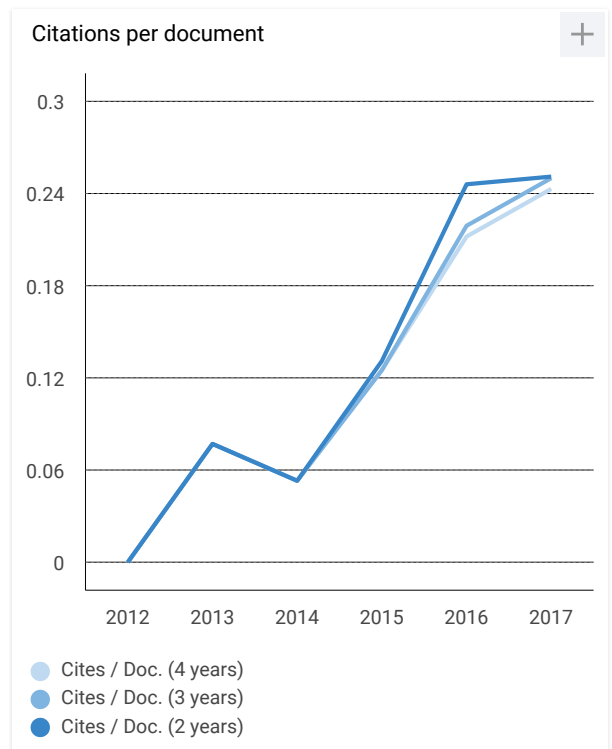
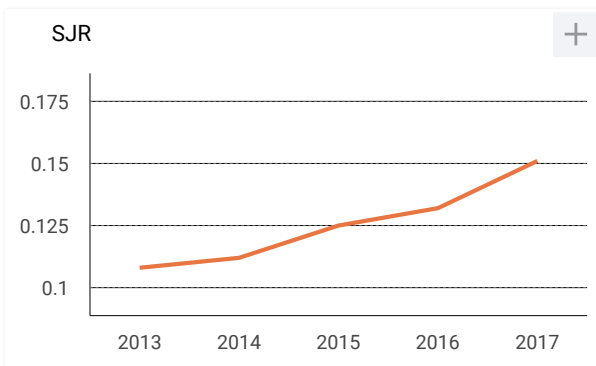
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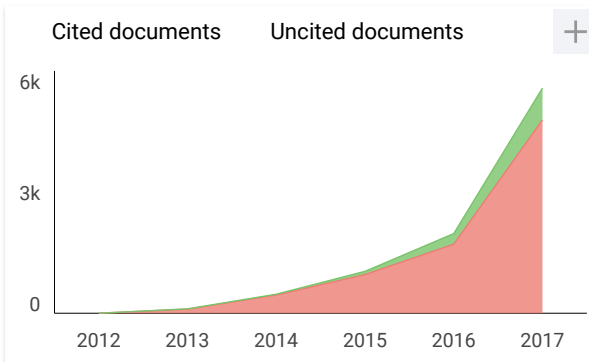
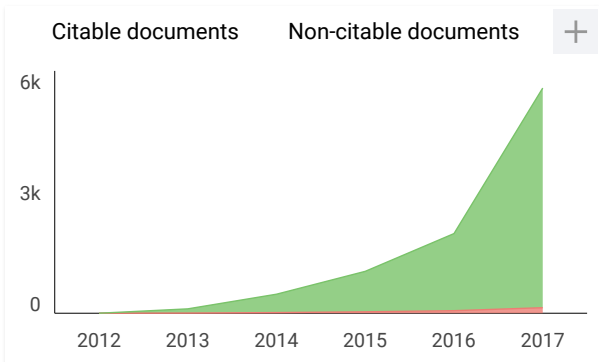
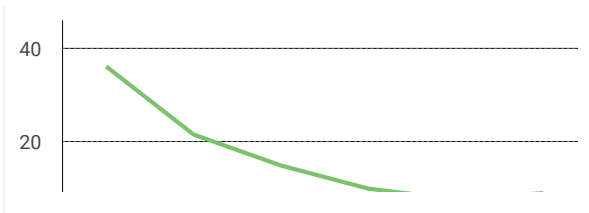
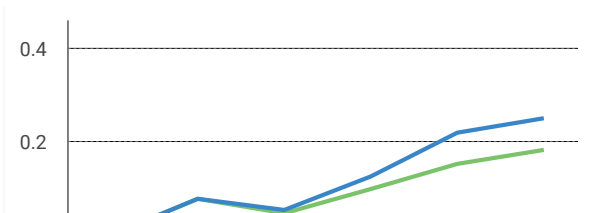
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August 24-26, 2017  
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**Bali, Indonesia, August 24-26, 2017**

B.H. Setiadji, A.L. Han, A. Widodo, J.D. Setiawan, O. Kurdi and J.U.D. Hatmoko (Eds.)

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