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

Judul Karya Ilmiah

Intact stability and seakeeping characteristics of autonomous surface vehicle (asv) using

swath hullform to support bathymetry survey activities on the coastal area

Jumlah Penulis

4 Orang

Status Pengusul **Identitas Prosiding** Penulis ke-1

Judul Prosiding

a.

The 5th International Seminar on Ocean and

Coastal Engineering, Environmental and Natural

Disaster Management (ISOCEEN 2017)

b. ISBN/ISSN eISSN: 2261-236X

Thn Terbit, Tempat Pelaks. C. Penerbit/Organiser d.

2017, Surabaya, Indonesia **EDP Sciences**

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Kategori Publikasi Makalah (beri ✓ pada kategori yang tepat) Prosiding Forum Ilmiah Internasional **Prosiding Forum Ilmiah Nasional**

Hasil Penilaian Peer Review:

Reviewer I	Reviewer II	Nilai Rata- rata
3	3	3
7	6	6,5
7	8	7,5
7	7	7
24	24	24
	3 7 7	3 3 7 6 7 8 7

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

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

Judul Karya Ilmiah				teristics of autonomous surface vehicle (asv) using varvey activities on the coastal area
Jumlah Penulis		Orang	•	•
Status Pengusul	: Pe	nulis ke-1		
Identitas Prosiding	: a.	Judul Prosiding	•	The 5th International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN 2017)
	b.	ISBN/ISSN	:	eISSN: 2261-236X
	c.	Thn Terbit, Tempat Pelaks.	:	2017, Surabaya, Indonesia
	d.	Penerbit/Organiser	:	EDP Sciences
	e.	Alamat Repository/Web	:	https://www.matec- conferences.org/articles/matecconf/abs/2018/36/ matecconf_isoceen2017_01001/matecconf_isocee n2017_01001.html
		Alamat Artikel	:	https://www.matec- conferences.org/articles/matecconf/pdf/2018/36/ matecconf_isoceen2017_01001.pdf
	f.	Terindeks di (jika ada)	:	Scopus
Kategori Publikasi Makalah		: ✓ <i>Prosiding</i> Forum	ı Ilm	iah Internasional

Hasil Penilaian Peer Review:

(beri ✓ pada kategori yang tepat)

		Nilai Maksin	Nilai Akhir	
	Komponen Yang Dinilai	Internasional	Nasional	Yang Diperoleh
a.	Kelengkapan unsur isi prosiding (10%)	3,00		3
b.	Ruang lingkup dan kedalaman pembahasan (30%)	9,00		7
C.	Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9,00		7
d.	Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		7
To	tal = (100%)	30,00		24

Prosiding Forum Ilmiah Nasional

Catatan Penilaian Paper oleh Reviewer:

Kesesualan dan kelengkapan unsur isi paper:
 Artikel telah memenuhi kelengkapan sesuai dengan template prosiding

Ruang lingkup dan kedalaman pembahasan:
Kajian terhadap performa ASV telah dilakukan dengan pembahasan yang baik, namun tidak ada metode baru yang digunakan untuk memperoleh hasil analisis, level pembahasan biasa.

Kecukupan dan kemutakhiran data/informasi dan metodologi:
Novelty penggunaan SWATH untuk ASV cukup baik dan telah ditunjang oleh beberapa literature yang cukup relevan, namun metodologi yang digunakan bukan pentoda bera. Indeke cipilleritea turnitin sebagar 17% (babas placingin)

digunakan bukan metode baru. Indeks similaritas turnitin sebesar 17% (bebas plagiarism)

Kelengkapan unsur dan kualitas terbitan: Prosedia memiliki reputasi biasa, unsur-unsur terbitan juga telah terpenuhi, SJR Index 0,15 dan H-Indeks 12

Semarang, 27 Juni 2019

Reviewer I

Dr.Eng. Hartono Yudo, S.T., M.T. NIP. 197510211999031004

Unit Kerja: S1 Teknik Perkapalan FT UNDIP

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

Judul Karya Ilmiah				teristics of autonomous surface vehicle (asv) using varvey activities on the coastal area
Jumlah Penulis		4 Orang	•	•
Status Pengusul	:	Penulis ke-1		
Identitas Prosiding	:	a. Judul Prosiding	:	The 5th International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN 2017)
		b. ISBN/ISSN	:	eISSN: 2261-236X
		c. Thn Terbit, Tempat Pelaks.	:	2017, Surabaya, Indonesia
		d. Penerbit/Organiser	:	EDP Sciences
		e. Alamat Repository/Web	:	https://www.matec- conferences.org/articles/matecconf/abs/2018/36/ matecconf_isoceen2017_01001/matecconf_isocee n2017_01001.html
		Alamat Artikel	:	https://www.matec- conferences.org/articles/matecconf/pdf/2018/36/ matecconf_isoceen2017_01001.pdf
	1	f. Terindeks di (jika ada)	:	Scopus
Kategori Publikasi Makalah (beri ✓pada kategori yang te		: V Prosiding Forum Prosiding Forum		

Hasil Penilaian Peer Review:

		Nilai Maksir	nal Prosiding	Nilai Akhir
	Komponen Yang Dinilai	Internasional	Nasional	Yang Diperoleh
a.	Kelengkapan unsur isi prosiding (10%)	3,00		3
b.	Ruang lingkup dan kedalaman pembahasan (30%)	9,00		6
C.	Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9,00		8
d.	Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		7
To	tal = (100%)	30,00		24
Ni	lai Pengusul = (60% x 24)= 14,4			

Catatan Penilaian Paper oleh Reviewer:

Kesesuaian dan kelengkapan unsur isi paper: Struktur dan tata tulis sudah memenuhi template yang sudah disyaratkan

Ruang lingkup dan kedalaman pembahasan:
Ruang lingkup dan pembahasan mengenari penerapan SWATH pada teknologi ASV telah dilakukan dengan baik, namun analisis yang dilakukan bukan sesuatu yang bersifat baru.

Kecukupan dan kemutakhiran data/informasi dan metodologi: Metodologi yang digunakan bukan metode baru, referensi yang digunakan memiliki tingkat kebaharauan yang cukup update, indeks similiraty cukup baik 17%

Kelengkapan unsur dan kualitas terbitan:
Prosedia sesuai dengan topik seminar dan memiliki reputasi biasa, indeks SJR 0,15, H-Index 12

Semarang, 27 Juni 2019

Reviewer 2

Ojo Kurdi, S.T!, M.T., Ph.D NIP. 197303171999031001

Unit Kerja: S1 Teknik Mesin FT UNDIP

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Volume 177, 4 July 2018, Article number 01001 5th International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management, ISOCEEN 2017; Surabaya; Indonesia; 8 November 2017 through; Code 140727

Intact stability and seakeeping characteristics of autonomous surface vehicle (asv) using swath hullform to support bathymetry survey activities on the coastal area (Conference Paper) (Open Access)

Ahmad Fauzan, Z.^a ⋈, Triwiyatno, A.^b, Sasmito, B.^c, Nubly, M.H.^a

^aNaval Architecture Department, Engineering Faculty, Diponegoro University, Indonesia ^bElectrical Engineering Department, Engineering Faculty, Diponegoro University, Indonesia ^cGeodetical Engineering Department, Engineering Faculty, Diponegoro University, Indonesia

View references (16) **Abstract**

The information is an important thing to search a new resource. In this decade, with leading-edge technology is easier to find any information about our earth. Thus, that is must be explored by the ships. The exploration works usually take a long time, and for convenience, the unmanned technology is much promised. In this research, we focused on the autonomous surface vehicle for bathymetry survey. To design the ASV, we must consider the reliability, efficiency, and safety. To reach those three components, the analysis of resistance, stability and wave response are necessary. Therefore, the hull form design is focused on Small Waterplane Area Twin Hull (SWATH) hull form. According to the numerical analysis, the proposed SWATH hull form of ASV is suitable for bathymetry activities. It can be proved by the stability performance which the maximum value of GZ is at 26.40. The resistance calculation result is indicated that the drag of coefficient of this hull form is about 0.013. © 2018 The Authors, published by EDP Sciences.

SciVal Topic Prominence (i)

Topic: Autonomous underwater vehicles | Vehicles | Vehicle AUV

Prominence percentile: 98.905 **①**

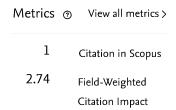
Indexed keywords

Engineering Bathymetry) (Coastal engineering) (Disaster prevention) Disasters controlled terms: Surveys) Environmental management Engineering Autonomous surface vehicles (Intact stability) (Leading edge technology) (Resistance calculation) uncontrolled terms Small waterplane area twin hulls Stability performance Three component (Wave response) Engineering main Unmanned surface vehicles heading:

Funding details

Funding text

The work is funded by Directorate of Research and Community Services (DRPM) of the Indonesian Ministry of





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Related research data (?)

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		SAMO: An autonomous craft for the study of sea-air	
	(2005) <i>IEEE Robotics and Automation</i> doi: 10.1109/MRA.2005.1511873	Magazine, 12 (3), pp. 95-105. Cited 94 times.	
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□ 16	Bhattacharyya, R. (1978) <i>Dynamics of Marine Vehicles</i> . Cited 314 times. John Wiley & Sons. Inc New York	
□ 15	Faltinsen, O.M. (2005) <i>Hydrodynamics of High-Speed Marine Vehicles</i> , p. 6. Cited 102 times. Cambridge University Press	
☐ 14	McCormick Barnes, W. (1979) <i>Aerodynamics Aeronautics Flight Mechanics</i> , p. 24. Cited 820 times. John Wiley & Sons Inc	
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☐ 12	Hine, R., McGilkvary, P. (2007) <i>Proc.Of PACON</i> , 2007.	
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<u> </u>	Phillips, S., Hook, D., Young, H. (2008) <i>Proc. of UDT Europe</i> , 2008.	
9	Ferreira, H., Martins, R., Marques, E., Pinto, J., Martins, A.O., Almeida, J.M., Sousa, J.B., (), S (2007) <i>Proc. of the Oceans Europe'07 Conference</i>	ilva, E.P.

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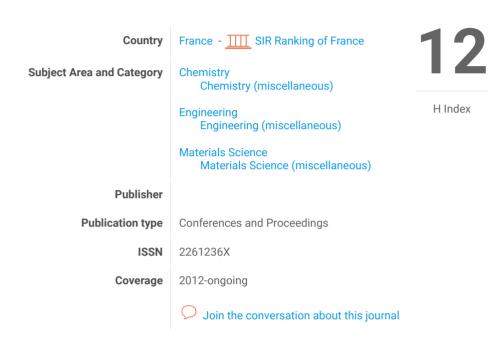
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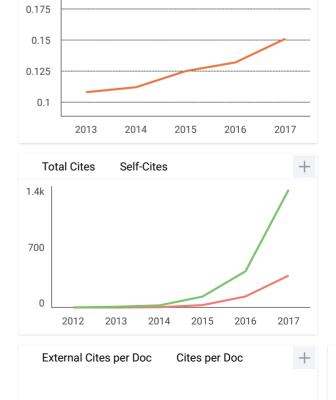
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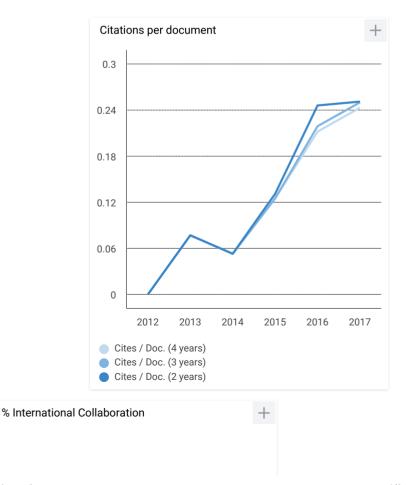
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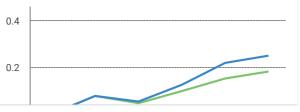


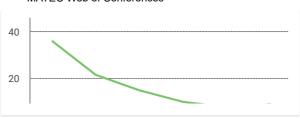


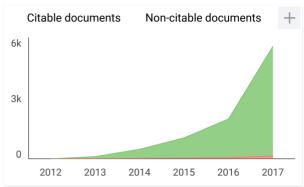


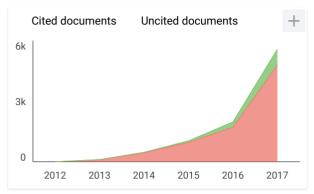
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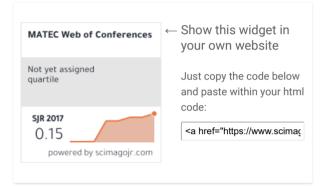
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- Ocean Engineering and Offshore Technology
- Port and Coastal Engineering
- Coastal, Delta, River and Estuary Management and Its Environmental
- Natural Disaster Management
- Sea Transportation and Ship Technology
- Ocean renewable Energy and Development

The 5th International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN) 2017

8TH NOVEMBER 2017

Introduction

We are delighted to announce that Institut Teknologi Sepuluh Nopember (ITS) especially Department of Ocean Engineering and Tohoku University have collaboration since 1997. In which, in the year 2006, a Memorandum of Understanding (MoU) has been signed between Tohoku University, Japan and Institut Teknologi Sepuluh Nopember to promote further collaboration between two institutions and and it has been extended until 20 December 2016. Many activities that have performed well in term of collaborative research, faculty and student exchange, joint educational program, seminars, workshops etc, especially for the seminar and workshop has been done several times before, namely; Japan-Indonesia Estuary Workshop, August 22nd, 2005 Jakarta, Japan - Indonesia Workshop on Estuary and Climate Change (JIWECC), August 8th -10th Surabaya, Indonesia and The first International Seminar on Ocean, Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN), November 11, 2013, Surabaya Indonesia. The 2nd International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management was held on December 2, 2014. in which the selected papers have been published to the International Journal, Procedia Earth and Planetary Scence. http://www.sciencedirect.com/science/journal/18785220/14.

The 3rd International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management was held on December 10, 2015. Published to Applied Mechanics and Material, https://www.scientific.net/AMM.862

The 4th International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management was held on December 13, 2016, the selected paper was processed to publish into IOP Conference



Series – Earth and Environmental Sciences *indexed in Scopus* .

The 5th International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management will be held on November 8, 2017. The selected paper will be published into: IOP Conference Series – Earth and Environmental Sciences *indexed in Scopus*.





Keynote Speakers and Invited Talks:

- Prof. Dr. Eng Hitoshi Tanaka, Vicepresident, Japan Society of Civil Engineering (JSCE), Tohoku University, Japan
 Prof. Dr. Julie Pietrzak, Professor Physical
- Oceanography, TU Delft, Netherlands. (just confirmed via email)
 3. Prof. Widi Agoes Pratikto, Ph.D. Execu-
- tive Director, CTI-CFF

 .Assoc. Prof. Alvaro Semedo, Ph.D,
- Unesco-IHE, Netherlands
 5.Ir. Liliane Geerling, R.TD, HZ University
 of Applied Sciences-Delta Academy,

Netherlands

Call For Papers

The technical program of the Conference will consist of keynote addresses, contributed papers and special sessions with invited speakers. Authors are invited to submit an extended abstracts (short papers) of 2-3 pages, including some results and/or graphics (ISOCEEN-2017-Extended AbstractTemplate). The extended abstracts will be reviewed and selected by an International Technical Committe for oral presentation. Prospective authors are requested to submit an extended abstracts to the Seminar Secretariat. It may be submitted either online through conference website or via regular mail. After the seminar, the full paper must be submitted and will be reviewed to be aligned with the requirements published in MATEC Web of Conference indexed in Scopus.



IMPORTATNT DATES

Deadline for Extended abstracts submission 21 Oktober 2017 24 Oktober 2017 Notification of Acceptance 30 Oktober 2017 Deadline for Authors' Registration Seminar Date 8 November 2017 Deadline for Full Paper submission 30 December 2017 1-30 January 2018 Review process 1-28 February 2018 Revision process Final checking and editing by Editors 30 May 2018 Deliver the Final Manuscript to the Publisher 15 June 2018

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Contributing Author	US \$ 400	IDR 3,000,000
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15 June 2018

Preface

International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN) is an annual internasional conference event held by cooperation among Institut Teknologi Sepuluh Nopember (ITS) especially Department of Ocean Engineering, Tohoku University, Japan, HZ University of Applied Sciences, Netherlands and The Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security (CTI-CFF). This forum was more focused on creating and expanding professional network to foster the relationship between the University, industry, business and communities across the country. The Organizing Committee worked many years for preparing of this seminar and their efforts resulted to full success. Based on the cooperation, there are some conference that we already held before, as follows:

- Japan Indonesia Workshop on Estuary and Climate Change (JIWECC), August 8th -10th Surabaya, Indonesia
- The 1st International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN), November 11, 2013, Surabaya, Indonesia.
- The 2nd International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN), December 2, 2014, Surabaya, Indonesia.
- The 3rd International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN), December 10, 2015, Surabaya, Indonesia.
- The 4th International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN), December 13, 2016, Surabaya, Indonesia.
- The 5th International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN), November 8, 2017, Surabaya, Indonesia

ISOCEEN 2017 was aimed on providing a discussion, for exchanging of knowledge, researches and of recent solutions for many researchers and experts in the field of Ocean, Offshore, Coastal engineering, Environmental and Disaster Management. The results of discussions are presented in this

book. We hope this book will be interesting and usefull for many engineers and scientists whose activity related with researches of ocean and development of coastal areas.

Finally, on behalf of the organizing committee of the seminar, sincere appreciation is expressed to all authors who contribute to our seminar. Special thanks are also due to all keynote speakers, invited talks and chairpersons for the efforts in preparing the manuscripts and managing the sessions, respectively.

Suntoyo, PhD Chairman of Organizing Committee

Committees

Advisory Committee:

- Rector of ITS Surabaya, Indonesia
- Dean of Marine Technology Faculty ITS, Indonesia
- Head of Ocean Engineering Department, Faculty of Marine Technology ITS, Indonesia

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Opening Speech by Chairman of ISOCEEN 2017 for International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management, on Tuesday, 08 November, 2017 at 08.45 am at Swiss Bellin Manyar Hotel, Surabaya

The first that we respect, Rector of ITS, Prof. Joni Hermana, Head of Ocean Engineering Department, Dr.Eng. Rudi Walujo P, Keynote Speaker, Dr. Alvaro Semedo, Dr. Ali Dastgheib, from Unesco-IHE, Netherlands, Invited talks **Dr.** Mohd Faris Khamidi, University of Reading Malaysia, Liliane Geerling, R.TD, HZ University of Applied Sciences-Delta Academy, Netherlands, Lecturers within ITS, Contributing Authors, Seminar delegates, experts, scholar, all student, Ladies and gentlemen.

Assalamu alaikum Wr. Wb., Good morning! Presence of Allah SWT 's grace that has given favors and gifts in this morning. Welcome to this **The 5th International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN 2017)**. I am pleased to join you here today.

We are delighted to announce that Institut Teknologi Sepuluh Nopember (ITS) especially Department of Ocean Engineering and Tohoku University have collaboration since 1997. In which, in the year 2006, a Memorandum of Understanding (MoU) has been signed between Tohoku University, Japan and Institut Teknologi Sepuluh Nopember to promote further collaboration between two institutions and and it has been extended until 20 December 2016. Many activities that have performed well in term of collaborative research, faculty and student exchange, joint educational program, seminars, workshops etc, especially for the seminar and workshop has been done several times before, namely; Japan-Indonesia Estuary Workshop, August 22nd, 2005 Jakarta, Japan – Indonesia Workshop on Estuary and Climate Change (JIWECC), August 8th -10th Surabaya, Indonesia. However the previous seminar activities organized not regularly therefore Since 2013 held an annual seminar entitled The first International Seminar on Ocean, Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN). Indonesia. The 2nd International 11. Surabaya 2013, on Ocean and Coastal Engineering, Environmental and Management (ISOCEEN), December 2, 2014. In which the selected papers have been published to the International Journal, Procedia Earth and Planetary Science. http://www.sciencedirect.com/science/journal/18785220/14

The 3rd ISOCEEN has been organized at 10 December 2015. The selected papers have been published to Trans Tech Publication on Applied Mechanics and Material Volume 862 in Special Edition Ocean Science and Coastal Engineering indexed in ISI Thomshon Rheuter.

Moreover, a Memorandum of Understanding (MoU) has been signed on July 29, 2015 between Institut Teknologi Sepuluh Nopember and HZ University of Applied Sciences, Netherlands to promote the development of academic scientific and cultural exchange, and of teaching and research activities, especially with Department of Ocean Engineering, ITS. And in 2016-2019

Our Department also have grants from Nuffic-Niche Project to increase collaboration among ITS-ITB and TU Delft Consorsium, Netherlands.

The 4th ISOCEEN has been organized at 13 December 2016. The selected papers have been published to to "*IOP Conference Series: Earth and Environmental Science*" indexed in Scopus. http://iopscience.iop.org/issue/1755-1315/135/1

With increasing amount of cooperation between Indonesia, Japan, Netherlands and another country then this forum is more focused on creating and expanding professional relationship between the network to foster the University, industry, business and communities across the country. Therefore it hold The 5th is necessary to International Seminar **Natural Disaster** on Ocean and Coastal Engineering, Environmental and Management (ISOCEEN) 2017 in which the selected papers presented in the seminar will be published to "MATEC Web of Conferences" indexed in Scopus.

Finaly, on behalf of the organizing committee of the seminar, sincere appreciation is expressed to all speakers contributing to our seminar. Special thanks are also due to all keynote speakers and all committee for the efforts in preparing the manuscripts and managing the sessions, respectively.

Wish the seminar a complete success.

Thank you!

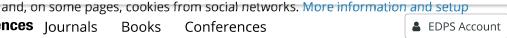
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