

Preface

International Seminar on Ocean and Coastal Engineering, Environmental and Natural Disaster Management (ISOCEEN) is an annual international 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

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