Preface of SENTA 2020 Proceedings

The International Conference on Marine Technology, which is more popular known as SENTA, is an annual conference organized by the Faculty of Marine Technology, Institut Teknologi Sepuluh Nopember (ITS) Surabaya, Indonesia. Since 2001, the Faculty of Marine Technology – ITS has organized the annual SENTA conference, formerly known as Seminar Nasional Teknologi dan Aplikasi Kelautan (National Conference on Marine Technology and Application), which provided a regular forum for researchers and engineers in Marine Technology in Indonesia. Then in 2016, SENTA conference has turned into an international conference in order to expand its research network.

Due to the Covid-19 pandemic situation, The 5th International Conference on Marine Technology (SENTA 2020) held virtually on 8 December 2020. All honourable authors contributed to the conference through submissions of their research papers on all topics related to “Transformation from Archipelagic into Maritime States for Prosperous Indonesia”, including, but not limited to: Naval Architecture, Ship Production and Material Technology, Marine Robotics and Digital Ship Technology, Marine and Safety Engineering, Marine Renewable Energy, Offshore and Coastal Engineering, Shipping, Port and Maritime Logistic, also Maritime Education Training. All of the authors presented their manuscript in two plenary sessions divided into eight rooms according to their topics through zoom platform. Each author delivered their presentation for about 12 minutes.

On behalf of SENTA committee, I would like to extend gratitude to all the authors who contribute to the submission of the result of their latest research. The committee of SENTA received 113 submissions. From those submissions, there were 78 papers that were presented in SENTA 2020. All the accepted paper has passed the criteria and has been reviewed by the reviewer and then the authors has revised it according to the reviews. 73 papers were accepted for publication. Also, I would like to express my grateful to the Technical Program Committee and the reviewers for their support in the reviewing process to keep the quality of manuscripts.

SENTA 2020 is a high quality conference with a competitive submission process. The committee received submissions from 9 countries, they are Indonesia, Japan, Malaysia, Nigeria, Saudi Arabia, South Korea, Sri Lanka, United Kingdom and United States. SENTA 2020 becomes a great opportunity for researchers, students and practitioners to participate in exchanging information and experiences to keep up to date the research, technology development and innovation related to maritime technology.

There are four prominent keynotes speakers to whom I would like to say thank for their support to SENTA 2020, they are:

1. Prof. Satryo Soemantri Brodjonegoro, President of Indonesia Academy of Science (AIPI), Indonesia
2. Prof. Mehmet Atlar, Professor Associate HOD Research & KE, University of Strathclyde, United Kingdom
3. Prof. Joem Kee-Paik, Professor of Safety Design and Engineering, Pusan National University, South Korea
4. Prof. Jason Monty, Head of Department of Mechanical Engineering, University of Melbourne, Australia
In addition, I sincerely appreciate Dr. Rafet Emek Kurt from University of Strathclyde - United Kingdom for SAFEMODE Project Presentation. SAFEMODE is a research project on the human factor element in marine and aviation safety. Conducted by more than 30 institutions worldwide and financed by Euro-Horizon 2020.

I would also appreciate the IOP conference publisher so that we could make an agreement to publish the SENTA proceeding to the IOP Conference Series: Materials Science and Engineering (MSE). We also would like to deliver the warmest greeting for our colleges, partnership universities, industry and government institutions.

Once again, thank you for your support, I wish that the aims of SENTA 2020 still can be achieved and gives great benefits for all authors though we could not conduct the conference as usual. I also hope that the SENTA 2020 proceeding can be useful for the readers in supporting their research related in marine technology as well as further contributing to develop the technology in the maritime field.

General Chair of SENTA 2020

Professor I Ketut Aria Pria Utama

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December, 2020
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