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” Sustainable development in industry  
and management ”



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Grand Hatika,  
Belitung Indonesia

Organized by Industrial Engineering Department



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# Proceeding

The 10<sup>th</sup> International Seminar on Industrial Engineering and Management (10<sup>th</sup> ISIEM)

*Sustainable development in industry and management*

Grand Hatika, Belitung, Indonesia

November 7 – 9, 2017

Organized by :

**Industrial Engineering Department of**

- Esa Unggul University • Trisakti University •
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## **P R E F A C E**

This issue is published in line with the Tenth International Seminar on Industrial Engineering and Management (10<sup>th</sup> ISIEM). The articles cover a broad spectrum of topics including Quality Engineering Management, Decision Support System and Artificial Intelligent, Ergonomics, Supply Chain Management, Production System, Operation Research, and Industrial Management. The 87 articles provide an overview of critical research issues reflecting on past achievements and future challenges. Those papers were selected from 77 out of 87 abstracts. This statistics shows the high competition to get published on this proceeding.

This issue and the seminar become special as more delegates come and join us from various countries as well as universities compared to previous years. We host 82 delegates both from abroad and local. The 10<sup>th</sup> ISIEM is hosted by seven universities, i.e. Esa Unggul University, Trisakti University, Tarumanagara University, Al Azhar Indonesia University, Atma Jaya Catholic University of Indonesia, Pasundan University and Pancasila University.

Special thanks go to Prof. Matteo Mario Savino from University of Sannio, Italy; Dr. Nutthapol Asadathorn, Executive Director of TRR Sugar Refinery Group, Thailand; and Dr. Syuhaida Ismail from University of Technology Malaysia, for their contribution as keynote speakers. We are also grateful to all reviewers, for their commitment, effort and dedication in undertaking the task of reviewing all of the abstracts and full papers. Reviewing a large number of submissions in a relatively short time frame is always challenging. Without their help and dedication, it would not be possible to produce this proceeding on time. I highly appreciate all members of ISIEM committees (advisory, steering, and organizing committees) for their mutual efforts and invaluable contribution for the success of the seminar.

Have a pleasant seminar

Dr. Iphov Kumala Sriwana  
Chair

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