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## Preface for ICST 2019

It is our pleasure to welcome you to the International Conference on Science and Technology (ICST 2019) in Surabaya, Indonesia. A major goal and feature of ~~it~~this conference is to bring academic scientists, engineers, industry researchers together to exchange and share their experiences and research results about the most notable aspects of science and technology research, and discuss the practical challenges encountered and the solutions adopted.

ICST is a scientific forum to discuss the development and the latest research on exact science, engineering and technology. The following topics of this conference are Physical Sciences and Chemistry, Mathematics and Statistics, Informatics and Computer Science, Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering and Electronics, Power and Energy Engineering, Environmental Engineering, Geological and Geophysical Engineering, Industrial Engineering, Manufacturing and Mechanical Engineering, Engineering Physics and Materials Engineering, Mining and Petroleum Engineering. Technology-based applications such as learning media for education can also be accepted at this Conference.

Strong support and active participation of authors have made the ICST 2019 a record-breaking event. It is a wonderful to have more than 300 papers or speakers from different countries and universities around the world representing various issues from multidisciplinary perspective. Each contributed paper was refereed before accepted for publication in this proceedings. The papers were accepted for publication based on their interest, relevance, innovation and application to the related fields. Hopefully by using the IOP Journal of Physics Conference Series as publisher, ICST 2019 will be sounded all around the world, moreover the papers that will be published could give positive results for further research.

ICST 2019 program have taken place over 3 days, 17 to 19 October. The first two days of the conference took place at the Sheraton Surabaya Hotel & Towers. On the third day, on Saturday, we have traveled to Madura Island, studied Madura Culture, saw directly the "Karapan Sapi" (traditional race bull) and enjoyed the special cuisine of Madura. That is why the theme of this conference is "Industrial Revolution 4.0: The opportunities and challenges in elevating local resources contribute to develop a better world".

We would like to thank the organization staff, the members of the program committees and reviewers. Special thanks to committee from Universitas Trunojoyo Madura, Universitas Negeri Surabaya, Politeknik Negeri Bali, Universitas Pembangunan Nasional "Veteran", Jawa Timur, Universitas Negeri Makassar, Universitas Negeri Manado, Politeknik Negeri Jember, Universitas Khairun, Universitas Musamus Merauke, Universitas Pembangunan Nasional "Veteran", Jakarta, Universitas Kadiri, Universitas Wijaya Kusuma Surabaya, and Universitas Bahaudin Madura. They have worked very hard in reviewing papers and making valuable suggestions for the authors to improve their work. We also would like to express our gratitude to the external reviewers, for providing extra help in the review process, and the authors for contributing their research result to the conference. Special thanks go to IOP Journal of Physics Conference Series Editor Team.



Rifky Yusron

Conference Publication Chair