



**The 4th Engineering Science and Technology
International Conference
(ESTIC) 2018**

Padang, Indonesia
August 28-29, 2018



The Axana Hotel Padang

<http://theaxanahotel.ambacang.com/>

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Preface

It is our great pleasure to introduce the proceedings of 2018 4th Engineering Science and Technology Conference (ESTIC 2018) held in Padang, West Sumatera, Indonesia from August 28-29, 2018. ESTIC 2018 is a scientific meeting aimed to promote mutual exchange between scientists and also experts, to discuss innovative ideas in scientific research and to find potential opportunities for international cooperation. This conference is dedicated to issues related to mechanical, chemical, industrial, electrical, information, civil and environmental engineering

The theme for this conference is "Applied Technology for Sustainable Development". Applied engineering was progressing rapidly and enables us to reveal and comprehend how this universe works. I believe that this theme has challenges for all engineers how to develop of sustainable industry process and energy, innovative material, conceptual and process design. However, the aim of the research is how to create the better life for the future without neglect the negative impact due to the actives incurred.

We would like to express our gratitude to keynote speakers and invited speakers for active participant in this conference. We would also like to thank the reviewers, who spared their valuable time, for their advice. They have certainly helped improve the quality, accuracy, and relevance of each paper selected for the conference program and for publication. We also wish to thank all the authors who have contributed to this conference, as well as the member of organizing committee, who has worked very hard to run the conference and all the conference participants for their support for ESTIC 2018.

Padang, August 28, 2018

Yovial Mahyoedin, PhD.



4th Engineering Science and Technology International Conference (ESTIC 2018)

INTRODUCTION.

The Engineering Science and Technology International Conference organized by the Faculty of Industrial Technology, Bung Hatta University, has been held since 2011, in the 2018, it was already its 4th volume

This event is aimed at promoting engineering technology research activities in Indonesia and overseas, in the hope of building and strengthening networks and collaborations. The upcoming conference theme is "Applied Technology for Sustainable Development". The conference is open to all researchers in applied engineering technology and science.

ORGANIZER:

Faculty of Industrial Technology, Bung Hatta University, Padang , West Sumatera, Indonesia

LOCATION AND DATE:

The Axana Hotel, Padang, 28th – 29th August 2018

CONFERENCE WEBSITES:

<http://www.esticfti.bunghatta.ac.id>

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KEYNOTE SPEAKERS

Prof. Yoshinori Itaya (Gifu University, Japan)

Prof. Dr. Ir. Andi Isra Mahyudin (Bandung Institute of Technology, Indonesia)

Assoc. Prof. Dr. Abu Bakar Sulong (National University of Malaysia)

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Assoc. Prof. Hendra Suherman, MT. (Bung Hatta University, Indonesia)

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