



Proceeding

**The 1st International Conference on Engineering and Applied Science
Universitas Muhammadiyah Purwokerto
(The 1st InCEAS 2016)**





InCEAS 2016

PROCEEDING OF THE
1ST INTERNATIONAL CONFERENCE OF
ENGINEERING AND APPLIED SCIENCE (InCEAS)
2016

NOVEMBER 26, 2016

UNIVERSITAS MUHAMMADIYAH PURWOKERTO
PURWOKERTO, INDONESIA

Editor : **Haryanto, Muhammad Hamka**

PUBLISHER

UMP Press – Universitas Muhammadiyah Purwokerto

Proceeding of the InCEAS 2016

ISBN : 978-602-14930-8-3

Editor :

Haryanto, Muhammad Hamka

Graphic Design

Prima Indramajid

Layout and setting of the proceedings

Mifthahul Afif Prasetyo

Publisher

UMP Press – Universitas Muhammadiyah Purwokerto

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PRINTED IN INDONESIA

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5. Lahan Adi Purwanto, S.Kom.

WELCOME ADDRESS

Distinguish delegates, keynote speakers, speakers, ladies and gentlemen, On behalf of the Organizing committee, I warmly welcome all distinguish speakers and participants to the first International Conference on Engineering and Applied Science 2016 organized by Faculty of Engineering, Universitas Muhammadiyah Purwokerto.

We are really honored to organize this conference as about 200 registered participants and keynote speakers from cross the world especially from Asia are participating in this conference. I am really appreciate that many of you have travelled along distance to share your research progress and your expertise with us. Special thanks go to keynote speakers, presenters, distinguish guests, and sponsors. I hope you can find the meeting valuable and enjoy meeting up with old friends and making a new contacts.

I also wish to extend our thanks to the organizing committee members for their great commitment to runs all aspect of this huge conference and successfully coordinated all distinguished experts from all over the globe.

Here, I am delighted to acknowledge for incredible support from our University and also from some sponsors.

Finally, I sincerely hope that all participants will have an interesting and productive meeting and apologize for any inconvenience during the interaction of our assistance.

I wish that all of you will have a fruitful and rewarding deliberation at the international conference on Engineering and Applied Science (InCEAS) 2016 with the theme “Advanced Innovation on Engineering and Applied Science”.

Purwokerto, November 2016
Chair of InCEAS 2016

Haryanto, S.T., M.T., Ph.D.

PREFACE

Thank to Almighty God who has given His bless to us for finishing the International Conference with the theme “Advanced Innovation on Engineering and Applied Science”

Thank you for your participation and enthusiasm toward InCEAS 2016. We do hope that you had pleasant experience in Purwokerto, Indonesia.

On this occasion, we say thanks and deepest gratitude to all the honors Committee organizers of the 1th International Conference on Engineering and Applied Science. Our special thanks also to all keynote speakers and presenter who plays an active role in this conference. We hope that this conference was able to provide insightful and thought-provoking contributions of the importance of technological innovation for a variety of national development efforts. We hope also the conferencer like this will be carried out in the coming year with an appropriate theme and able to contribute to the national development.

Purwokerto, November 2016
Dean of Faculty of Engineering-UMP

M. Taufiq Tamam, S.T., M.T.

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