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# ISETH

International Conference on Science, Technology, and Humanity

## *Proceeding Book*

The 3rd International Conference  
on Science, Technology,  
and Humanity



in conjunction with:



## Message from Chair

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On behalf of the ISETH 2017 organizing committee, I am honored and pleased to welcome you to the 3rd International Conference on Science, Technology, and humanity (ISETH) in conjunction with the 4<sup>th</sup> International Conference on Engineering, Technology and Industrial Application (ICETIA) and Simposium Nasional Rekayasa Aplikasi dan Perancangan Industri (RAPI) ke-16 at AliLa Hotel Solo, Indonesia. We have been working with Universitas Muhammadiyah Kalimantan Timur to organize this conference.

The 3<sup>rd</sup> ISETH conference topic is “The power of social media: guiding changes for better future”. Social media nowadays have a very significant role in shaping the world; thus the power of social media has to be used for guiding changes for a better future.

This third conference of the series, ISETH 2017 welcomes brand new ideas dedicated to the fields of technology, science and humanity as a contribution to establish a better future through the power of social media. We have 33 papers to be presented, organized as a set of tracks in Technology for humanity; Health and human welfare; Science for humanity; and Humanity and social sciences.

We are honored to have Assoc. Prof. Abdul Razak Ahmad, Ph.D. of National Defence University of Malaysia as our keynote speaker. I would like to thank our partner Universitas Muhammadiyah Kalimantan Timur, whose systematic work has built up this network and brought people here to share their works and ideas on the related issues to this conference. We gratefully acknowledge the keynote speaker as well as participants who contribute ideas to be presented in this conference. We also appreciate and thankful for the support of all committee members who have been tirelessly working to make this conference happen.

Finally, I hope that you will find the conference both enjoyable and valuable, and also enjoy the cultural and natural beauty of Solo.

Solo, December 13th, 2017

Conference Chair,



Wardah Yuspin, Ph.D.

## Welcome speech from Rector of Universitas Muhammadiyah Surakarta

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*Assalaamu 'alaikum warahmatullahi wabarakatuh*

*Alhamdulillahirabbil 'alamin*, all praise due to Allah SWT for His blessing and mercies so we all can be here together to attend this 3rd International Conference on Engineering, Technology and Humanity (ISETH) 2017.

*Distinguished guests, respected colleagues, and ladies and gentlemen.*

First of all, let me extend my warm welcome to the Keynote Speakers and all of the participants. Considering just how busy you all, thank you very much for taking your precious time to share valuable experiences and ideas and to participate in this International conference.

This 3rd series of the conference responds to the current issue: the influence of social media in shaping up the global community. Research, as manifestation of innovation, looks for opportunities to create humane society and to breed global prosperity. Social media nowadays have a very significant role in shaping the world; thus the power of social media has to be used for guiding changes for a better future. ISETH 2017 welcomes brand new ideas dedicated to the fields of technology, science and humanity as a contribution to establish a better future through the power of social media. Considering such a broad coverage, Universitas Muhammadiyah Surakarta co-organizing this series of International Conferences with Universitas Muhammadiyah Kalimantan Timur adopts a timely theme “The power of social media: guiding changes for better future” It is essential to bring together experts in the field of science, technology and humanity so that we can realize together the potential of wisdom of innovation for a humane society.

If you take a look at the Conference Program, you will agree that this series of International Conference is going to be busy and productive. I would like to take this opportunity to thank the Conference Organizing Committee for their diligent work preparing this conference and making sure that the event goes well.

Last but not least, I strongly hope that all of the distinguished guests gathered here today would enjoy the Conference and I wish our visitors from abroad and other parts of Indonesia will have a very pleasant stay in Solo.

*Wassalaamu 'alaikum warahmatullahi wabarakatuh.*

Warm greetings,

Dr. Sofyan Anif,  
Rector of Universitas Muhammadiyah Surakarta

## Organising Committee

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