

Newsletter

2018

IEEE Region 10 Humanitarian Technology Conference

On December 6-8, 2018 IEEE Region 10 Section held Humanitarian Technology Conference in Colombo, Sri Lanka. The conference promoted discussions and development of Electrical, Communication, Computing, Security and Disaster Relief areas to present results of recent advancements in technology in order to help improve the lives of the impoverished. IEEE R10 HTC 2018 took "Sustainable Technology for Humanity" as a theme. 5 keynote speakers were invited to the conference.

Paul M. Cunningham, Director of IST-Africa Institute and Chair of IEEE Humanitarian Activities Committee, delivered a speech about "Sustainable Development and the Fourth Industrial Revolution". In his speech, he discussed about how to maximize the potential benefits of leveraging the potential offered by the Fourth Industrial Revolution (with a particular focus on technology, innovation and standards) while taking account of ethical considerations (including informed consent) and the potential impact on local sociocultural norms. Professor Gamini Dissanayake from University of Technology, Sydney delivered a speech about "The Robotics Revolution: Opportunities and Challenges in Humanitarian Applications". In his speech, he discussed about the key competencies that underpin robots operating in complex and unstructured environments: perception, learning and control.

Raj Madhavan, Founder & CEO of Humanitarian Robotics Technologies, delivered a speech about "Humanitarian Robotics Technologies & Technology-Policy Considerations for Societal Good". In his speech,



he discussed about challenge of producing an solution for open-source detecting buried classifying unexploded ordnance. Professor Kazuo Kiguchi from Kyushu University, Japan delivered a speech about "Robotic Technology to Assist Human Activities of Daily Living". In his speech, he introduced the latest robotic technology to assist human activities of daily living. Professor Alan Purvis from Durham University, UK delivered a speech "Resilient about Complex Electronic Telecommunications Systems". In his speech,

he talked about the importance of resilience in that fragile humanitarian systems should not be compounded by electronics that might due to stress also fail.

Professor Yuli, as Chair of IEEE Indonesia Section, also attended this conference to promote the next IEEE R10 HTC that will be held in Indonesia. She explained that IEEE R10 HTC 2019 will take place in Universitas Indonesia, she also explained about the important dates related to the next HTC event.





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Contact Information

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IEEE R10 HTC 2019, which is organized and hosted by IEEE Indonesia Section, will be held in Depok at November 12-14, 2019. The theme of the conference, "Advancing Sustainable Green Technologies for Humanities," is to draw special attention to the societal expectation on humanitarian technologies' ability to provide practical and lasting solutions.

Topics of interest include, but not limited to

- · Robotics, control systems and automation
- Cloud computing, big data, architecture, mobile and wireless communications,
- · Optical and photonic communications, optical networks
- · Biomedical engineering
- Circuits, systems and signal processing,
- Power electronics, machines and drives, high voltage
- · Telecommunication technologies
- · Semiconductor, photonics and nanotechnology
- · Energy and environment
- · IoT and enabling technologies
- Information and communication technologies

with the focus on

- Health care
- Social welfare
- Poverty alleviation
- Education
- · Disaster management
- Food and agriculture
- Women empowerment
- Sustainability and environment
- Other humanitarian aspects

Tracks:

- Conference Track
- Project Competition Track
- Tutorial and Short Courses
- Region 10 Congress Track

Accepted and presented papers will be submitted to IEEE Xplore

Important Dates:

14 Mar : Tutorial/special session proposal deadline 31 Mar : Notification for tutorial/special session

2 Apr - 5 Jul : Paper submission

15 Mar -15 Jun: HT Project competition submission
1 Aug: HT Project finalist notification
30 Aug: Paper acceptance notification

30 Aug - 1 Oct : Registration

1 Jul – 1 Oct : Workshop registration

1 Oct : Deadline for camera ready paper

Registration Fee:

Registration type	International (USD)	Local (IDR)
REGULAR MEMBER	300	3,000,000
REGULAR NON-MEMBER	350	4,000,000
STUDENT MEMBER	200	2,000,000
STUDENT NON-MEMBER	250	2,500,000
AUDIENCE	150	1,500,000

Additional	International (USD)	Local (IDR)
ADDITIONAL PAPER	150	1,950,000

IEEE Indonesia Section Donated Solar-Powered Portable Energy Storage (TaLis) to DRPM Universitas Indonesia for Emergency Response during Disaster

On Monday, December 17, 2018, the IEEE Indonesia Section represented by Prof. Dr. Fitri Yuli Zulkifli, S.T, M.Sc., IPM donated two sets of Solar-Powered Portable Energy Storage called TaLis to Prof. Dr. Heri Hermansyah, S.T., M.Eng, Director of the Directorate of Research and Community Engagement Universitas Indonesia (DRPM UI). TaLis is portable energy storage device based on lithium ion battery and is developed by Dr. Chairul Hudaya from Department of Electrical Engineering Universitas Indonesia.



During the disaster, electricity supply often suffers from blackout due to the destroyed power generation and grids. In other hand, paramedics and volunteers who perform emergency response really need the electricity supply to run the medical or first-aid devices, lighting and other applications. To charge TaLis, a set of PV panel equipped with solar charge controller is developed so it could still be operated even if there is no electricity supply from conventional grid. TaLis consists of 18650-type cylindrical battery with total energy of ~ 700 Wh, resulted from 13S5P (65 pcs), BMS 30A, Inverter of 300 W (42-54.6VDC to 220 VAC), DC to DC Converter 200W (48 VDC to 12 VDC), and charging input of 48V.

According to DRPM UI, a voluntarily team will be assigned to Palu next January 2019. The donation from IEEE Indonesia Section would be favorable to the team in helping local people recover from the disaster.

SMAP 2018 (National Seminar of Antenna and Propagation)



On December 10, 2018 Department of Electrical Engineering Universitas Pakuan hosted a National Seminar on Microwave, Antenna and Propagation (SMAP 2018). The theme of this seminar is about "Increasing Researcher's Capacity in Publication and Implementation of Excellence and Quality Research to Increase Nation Competitiveness" in Bogor. The seminar invited DR. Muhammad Dimyati (Director General of Research and Development Ministry of Research, Technology and Higher Education), Prof. DR. Fitri Yuli Zulkifli, S.T, M.Sc (Chair IEEE Indonesia Section), dan Prof. DR. Ir. H.

Didik Notosudjono M.Sc (Professor in Universitas Pakuan) as keynote speakers. President and secretary of Pakuan Siliwangi Foundation also attended in this event.

The seminar began with opening speech from rector of Universitas Pakuan DR. H. Bibin Rubini, M.Pd followed by the first keynote speech from DR. Muhammad Dimyati. He delivered a speech about "Readiness of Universities to Face the 4.0 Industrial Revolution". The next speech was delivered by Prof. DR. Fitri Yuli Zulkifli, S.T, M.Sc about "Antenna Miniaturization Technology and Applications", and Prof. DR. Ir. H. Didik Notosudjono M.Sc as the third keynote speaker talked about "New and Renewable Energy" in his speech. SMAP 2018 was the 7th SMAP since held for the first time in 2012. SMAP 2018 aimed to be a forum to exchange knowledge and information in microwave, antenna and propagation to support the research development in these particular topics. In this seminar, research papers from participants were also presented. 36 papers from various universities in Indonesia were received to be presented.

IEEE Conference Management Workshop (Reported by: Almira Budianto)

On December 12, 2018, a Management Workshop of International Conference on IEEE Indonesia section was held at Mas Mansur Building Faculty of Industrial Technology, Universitas Islam Indonesia Yogyakarta. This event itself as a cooperation with the Electrical Engineering Department, Faculty of Industrial Technology, Universitas Islam Indonesia (UII) Yogyakarta. The speakers of this event were Prof. Dr. Ir. Fitri Yuli Zulkifli, S.T., M.Sc. as the IEEE Indonesia Section Chair, Muhammad Nasrun, S.Si., M.T. as the IEEE Indonesia Section Conference Activity Coordinator and Dr. Kurnianingsih as the IEEE Region 10 (Asia-Pacific Region) Coordinator of Electronic Communications & Information Management. The workshop was attended by 14 people consisting of lecturers and academic staff, 7 of whom were IEEE members.

The first speaker was Dr. Kurnianingsih who gave the opening with IEEE at a glance, especially in IEEE region 10. The activities in IEEE region 10 consist of educational, technology, society, and student activities. The IEEE region 10 covers asia pacific and continued by Prof. Dr. Ir. Fitri Yuli Zulkifli, S.T., M.Sc. that explained

briefly about the IEEE activities that have been and will be implemented by the IEEE Indonesia section and several important issues related to the conference system of IEEE as well. The discussion was opened with statement "why conference and journal are important". Prof. Dr. Ir. Fitri Yuli Zulkifli, S.T., M.Sc. supported the academicians and practitioners to publish their research. To support the research, IEEE offered the benefit to collaborate with IEEE related to support the research. The next session presented by Muhammad Nasrun, S.Si., M.T.



who explained the detail of IEEE conference quality and management system. The workshop was attended by lecturers of Electrical, Informatics, Industrial engineering, Directorate of Research & Community Service and IT support staffs of Universitas Islam Indonesia Yogyakarta.

This workshop was held to support the preparation of International Biomedical Instrumentation and Technology Conference - IBITeC that will be held in October 2019 next year. The workshop was followed by discussions from the participants and ended with a photo session together.

ICCEREC 2018

On December 5-7, 2018 the international organizing committee of ICCEREC organized The 4th International Conference on Control, Electronics, Renewable Energy, and Communications 2018 (ICCEREC 2018) in Bandung, Indonesia. The conference was technically co-sponsored by the IEEE Communications Society Indonesia Chapter and Signal Processing Society Indonesia Chapter. This year event was attended by 46 participants and invited 3 keynote speakers namely Assoc. Prof. Ir. Dr. Irraivan Elamvazuthi, Dr. Nasrullah Armi and Dr. Muhamad Reza.



ICCEREC 2018 was the International Conference whose provided an international forum for researchers, academicians, professionals, and students from various engineering fields and with cross-disciplinary interests in control, electronics, renewable energy, computer engineering and communications to interact and disseminate information on the latest developments. The conference included technical sessions, tutorials, and technology and business panels. You are invited to submit papers in all areas mentioned above. Accepted papers will be published in the ICCEREC 2018 Conference Proceedings and presented papers will be submitted to IEEE Xplore after each paper is thoroughly reviewed and (if any) satisfactorily modified according to the reviewer comments. Indexed by SCOPUS.



Advancing Technology for Humanity

Editor Corner

We welcome all the readers for the 20th edition of our newsletter. This newsletter is from us to us and hopefully it is useful for all Indonesian IEEE members. We hope that the article can inspire you. This month, we have information about 2019 Humanitarian Technology Conference (HTC) and other activities as well. What are these activities? Read this newsletter, more information is included. We will also continue to update about all our activities through newsletters and e-notices. Please be aware with these important major activities in 2018! Hope you enjoy this newsletter edition! Happy reading!

Casi Setianingsih & A'isya Editor – IEEE Indonesia Newsletter

We are waiting for the participation of Chapters and Student Branch in Indonesia to share the information of completed and ongoing activities and the participation of Chapters in Indonesia to share the regarding technical articles. For members IEEE who want to share information and articles please email to:

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