

## IEEE R10 HTC 2019 PROGRAM AT A GLANCE

Tuesday, November 12th 2019					
08.00-08.30	Registration				
	<b>Engineering Festival for Humanity: Networking, Sharing and Inspiring</b>		<b>Tutorial Track</b>		
08.30-10.00	Briefing & Poster Exhibition	08.30-09.00	Tutorial Preparation		
10.00-12.30	Meeting Point Room <b>Humanitarian Engineering Project Competition 2019</b> <ul style="list-style-type: none"> <li>▪ Project Exhibition</li> <li>▪ Project Presentation Session</li> <li>▪ Question &amp; Answer Session</li> </ul>	09.00-10.30	Room 1 <b>Green Communication</b> Prof. Dr. Mohamad Yusoff bin Alias (Multimedia University, Malaysia)	Room 2 <b>Video Analytics for Surveillance IoT Applications</b> Assoc. Prof. Supavadee Aramvith, Ph.D. (Chulalongkorn University, Thailand)	
		10.30-10.45	Coffee Break		
		10.45-12.00	Room 1 <b>Green Communication</b> Prof. Dr. Mohamad Yusoff bin Alias (Multimedia University, Malaysia)	Room 2 <b>Video Analytics for Surveillance IoT Applications</b> Assoc. Prof. Supavadee Aramvith, Ph.D. (Chulalongkorn University, Thailand)	
		12.00-12.05	Photo Session		
		12.30-13.30	Lunch Break		
13.30-15.30	Meeting Point Room Workshop and Focus Group Discussion Humanitarian Technology Project <b>IEEE commitment to support Humanitarian Technology Activity</b> Assoc. Prof. Dr. Supavadee Aramvith (HAC IEEE)  <b>Idea, Insight and commitment to run Humanitarian Technology Activity</b> Prof. Shaikh Anowarul Fattah (IEEE Bangladesh)	13.00-15.00	Room 1 <b>Imaging for Life Science</b> Hermawan Nugroho, Ph.D (University of Nottingham Malaysia, Malaysia)	Room 2 <b>IoT for Agriculture: Urban Lifestyle Farming: A Future Trend of Agriculture in Urban Areas</b> Dr. Sri Wahjuni and Dr. Karlisa Priandana (Bogor Agricultural University, Indonesia)	
15.30-16.00	Coffee Break		15.00-15.30	Coffee Break	
16.00-17.45	<b>Success story of Humanitarian Technology Activity in Indonesia</b> Dr. dr. Yoke Saadia Irawan MT (Institut Teknologi Bandung, Indonesia) <b>Make your global impact from IEEE Humanitarian Technology Activity</b> Assoc. Prof. Dr. Jing Dong (R10 HAC Coordinator)	15.30-17.00	<b>Imaging for Life Science</b> Hermawan Nugroho, Ph.D (University of Nottingham Malaysia, Malaysia)	<b>IoT for Agriculture: Urban Lifestyle Farming: A Future Trend of Agriculture in Urban Areas</b> Dr. Sri Wahjuni and Dr. Karlisa Priandana (Bogor Agricultural University, Indonesia)	
17.45-18.15	Closing ,remarks, appreciation and photo session				

08.00-08.30	Registration				
08.30-09.15	Room: Plaza 2nd Floor				
	<b>Opening Ceremony</b> 1. <b>Dr. Basari</b> (IEEE R10 HTC 2019 General Chair) 2. <b>Prof. Dr. Eng. Wisnu Jatmiko</b> (IEEE Indonesia Section Chair) 3. <b>Prof. Akinori Nishihara</b> (IEEE Region 10 Director)				
09.15-09.30	Photo Session & Coffee Break				
09.30-12.00	Room: Plaza 2nd Floor				
	Keynote Speaker 1 <b>Safish Babu</b> President of Inapp Information Technologies, India Towards Sustainable and Ethical Technologies for Humanitarian Applications  Keynote Speaker 2 <b>Prof. Hideyuki TAKAGI</b> Kyushu University, Japan Humanized Technologies: It's not just about Performance.				
12.00-13.00	Lunch Break				
	Room A	Room B	Room C	Room 1	Room 2
	<b>R10 HTC 2019 Paper Presentation Day 1, Parallel Session I, II &amp; III</b>			<b>Women in Engineering (WIE) Panel Discussion and Video Project Competition</b>	<b>Industrial Relation Track: Innovation for Creating A Smart Future</b>
13.00-15.00	Track: Non-Invasive Technologies	Track: Telecommunication Technologies	Track: Circuits, Systems, and Signal Processing	IEEE Commitment to Support Women Social Project <b>Prof. Takako HASHIMOTO</b>	<b>Mr. Nonot Harsono</b> (Board of BAKTI, Ministry of Communication and Informatics, Republic of Indonesia)
	A-SES1-ROOMA-1 A-SES1-ROOMA-2 A-SES1-ROOMA-3	A-SES1-ROOMB-1 A-SES1-ROOMB-2 A-SES1-ROOMB-3	A-SES1-ROOMC-1 A-SES1-ROOMC-2 A-SES1-ROOMC-3		
	Track: Biosignal & Bioimage Analysis	Track: Networking Technologies	Track: Sustainability and Environment	Collaborative Social Project for Women Empowerment	<b>Mr. Setiaji</b> (Head of Department of Communication and Informatics, West Java Province)
	A-SES2-ROOMA-1 A-SES2-ROOMA-2 A-SES2-ROOMA-3	A-SES2-ROOMB-1 A-SES2-ROOMB-2 A-SES2-ROOMB-3	A-SES2-ROOMC-1 A-SES2-ROOMC-2 A-SES2-ROOMC-3		
15.00-15.30	Coffee Break				
15.30-17.00	Track: Health Care Technologies	Track: Network Infrastructure Technologies	Track: Robotics & Automation Systems	Video Project Competition & Finalist Presentation	<b>Mr. Faris Rahman</b> (Chief Technology Officer Nodeflux)
	A-SES3-ROOMA-1 A-SES3-ROOMA-2 A-SES3-ROOMA-3	A-SES3-ROOMB-1 A-SES3-ROOMB-2 A-SES3-ROOMB-3	A-SES3-ROOMC-1 A-SES3-ROOMC-2 A-SES3-ROOMC-3	Panel Discussion	<b>Mr. Marshall Pribadi</b> (Founder & CEO PrivyIDi)
				Closing & Photo Session	Closing & Photo Session
18.15-20.00	Amphitetaer Felfest UI				
	Gala Dinner				

08.30-09.00	Registration			
09.00-10.00	Room: Plaza 2nd Floor			
	<b>IEEE Session:</b> <b>IEEE in Fostering and Strengthening Your Professional Engineering Experiences</b> 1. Assoc. Prof. Dr Parkash Lohana (MD Coordinator-IEEE R10) 2. Ewell Tan (Staff from IEEE Asia-Pacific office) 3. Alex Liu (Staff from IEEE Asia-Pacific office)			
10.00-10.30	Coffee Break			
10.30-12.00	Room: Plaza 2nd Floor			
	Keynote Speaker 3 <b>Prof. Dr. Eng. Wisnu Jatmiko</b> University of Indonesia, Indonesia Smart Telehealth System to Enhance Healthcare Service in Indonesia			
12.00-13.00	Lunch Break			
	Room A	Room B	Room C	Room 1
	<b>R10 HTC 2019 Paper Presentation Day 2, Parallel Session I, II &amp; III</b>			<b>Teacher in Service Program (TISP) Forum: Enhance Student Involvement in Class (STEM)</b>
13.00-15.00	Track: Power & Energy Systems	Track: Empowerment and Sustainability	Track: Water Management Systems	<b>TISP Session 1</b>  <b>Prof. Emeritus Lance C.C Fung</b> (Chair of IEEE Asia Pacific/R10 Educational Activities)  <b>Iwan Kustiawan.PhD</b> (IEEE Education Society Indonesia Chapter Vice Chair)
	B-SES1-ROOMA-1 B-SES1-ROOMA-2 B-SES1-ROOMA-3	B-SES1-ROOMB-1 B-SES1-ROOMB-2 B-SES1-ROOMB-3	B-SES1-ROOMC-1 B-SES1-ROOMC-2 B-SES1-ROOMC-3	
	Track: Healthcare & Science	Track: IoT & Communication Technologies	Track: Disaster Management	
	B-SES2-ROOMA-1 B-SES2-ROOMA-2 B-SES2-ROOMA-3	B-SES2-ROOMB-1 B-SES2-ROOMB-2 B-SES2-ROOMB-3	B-SES2-ROOMC-1 B-SES2-ROOMC-2 B-SES2-ROOMC-3	
15.00-15.30	Coffee Break			
15.30-17.00	Track: Renewable Energy Education and Awareness	Track: Food, Agriculture & Environment	Track: Blockchain & Information Technologies	<b>TISP Session 2</b>  <b>Prof. Emeritus Lance C.C Fung</b> (Chair of IEEE Asia Pacific/R10 Educational Activities)  <b>Iwan Kustiawan.PhD</b> (IEEE Education Society Indonesia Chapter Vice Chair)
	B-SES3-ROOMA-1 B-SES3-ROOMA-2 B-SES3-ROOMA-3	B-SES3-ROOMB-1 B-SES3-ROOMB-2 B-SES3-ROOMB-3	B-SES3-ROOMC-1 B-SES3-ROOMC-2 B-SES3-ROOMC-3	
				Closing & Photo Session

**PARALEL SESSION RUNDOWN**  
**Wednesday, November 13th 2019**

**Parallel Session I**

ROOM: A

TRACK: NON-INVASIVE TECHNOLOGIES

A-SES1-ROOMA-1	13.00-13.20	<b>Non-Invasive Blood Glucose Measurement Using Near Infra-Red Spectroscopy</b> Anika Tabassum Priyoti, Salman Jubair Jim, Sushmit Hossain, Shafkat Mahmud, Sujana Salvin and Arnab Bhattacharjee (Bangladesh University of Engineering and Technology, Bangladesh)
A-SES1-ROOMA-2	13.20-13.40	<b>Non-Invasive Blood Glucose Monitoring Using Near-Infrared Spectroscopy Based on Internet of Things using Machine Learning</b> Betty Elisabeth Manurung, Hugi Reyhandani Munggaran and Galih Fajar Ramadhan (Bandung Institute of Technology, Indonesia); Allya Paramita Koesoema (Institut Teknologi Bandung & IEEE SIGHT on eHealth and Telemedicine Indonesia, Indonesia)
A-SES1-ROOMA-3	13.40-14.00	<b>Design of Respiratory Rate Measurement Based on Ultrasound Proximity Sensor</b> Ismoyo Danurwindo and Basari (Universitas Indonesia, Indonesia)

ROOM: B

TRACK: TELECOMMUNICATION TECHNOLOGIES

A-SES1-ROOMB-1	13.00-13.20	<b>Multiband Wideband Monopole Antena Using RSRR for WLAN and WiMAX Application</b> Rosza Madina, Eko Tjipto Rahardjo and Fitri Yuli Zulkifli (Universitas Indonesia, Indonesia)
A-SES1-ROOMB-2	13.20-13.40	<b>Techno-Economic Analysis of M2M Access Media to Support Data Communication Network Availability</b> Sigit Suryatama and Fitri Yuli Zulkifli (Universitas Indonesia, Indonesia)
A-SES1-ROOMB-3	13.40-14.00	<b>Community Cellular Networks in the Philippines: Challenges and Opportunifities Towards Sustainability</b> Mary Claire Barela, Philip A. Martinez, Maria Theresa Cunanan, Ronel Vincent P. Vistal and Cedric Angelo Festin (University of the Philippines, Philippines)

ROOM: C

TRACK: CIRCUITS, SYSTEMS, AND SIGNAL PROCESSING

A-SES1-ROOMC-1	13.00-13.20	<b>Eye Gaze Controlled Immersive Video Navigation System for Disabled People</b> Dipayan Saha, A. Q. M. Sazzad Sayyed, A. F. M. Saif, Celia Shahnaz and Shaikh Anowarul Fattah (Bangladesh University of Engineering and Technology, Bangladesh)
A-SES1-ROOMC-2	13.20-13.40	<b>IoT Based Smart Water Quality Data Logging Sensor System</b> Dipankar Pal, Yash Pandit and Nifish Kulshrestha (BITS-Pilani, K. K. Birla Goa-Campus, India)
A-SES1-ROOMC-3	13.40-14.00	<b>Deep Lip Reading - A Deep Learning Based Lip Reading Software for the Hearing Impaired</b> Mohammed Abid Abrar, A. N. M. Nafiul Islam, Mohammad Muntasir Hassan, Mohammad Tariqul Islam, Celia Shahnaz and Shaikh Anowarul Fattah (Bangladesh University of Engineering and Technology, Bangladesh)

## Parallel Session II

ROOM: A

TRACK: BIOSIGNAL & BIOIMAGE ANALYSIS

A-SES2-ROOMA-1	14.00-14.20	<b>Dementia MRI Classification Using Hybrid Dragonfly Based Support Vector Machine</b> Bharanidharan N and Harikumar Rajaguru (Bannari Amman Institute of Technology, India)
A-SES2-ROOMA-2	14.20-14.40	<b>Real Time EEG-based Stress Detection and Meditation Application with K-Nearest Neighbor</b> Prima Dewi Purnamasari and Alya Fernandya (Universitas Indonesia, Indonesia)
A-SES2-ROOMA-3	14.40-15.00	<b>End to End Solution for Continuous Monitoring and Real-Time Analysis of Vital Signs from ECG Signal</b> Md. Hassanuzzaman Hassan, Purnendu Biswas and Tanzilur Rahman (North South University, Bangladesh)

ROOM: B

TRACK: NETWORKING TECHNOLOGIES

A-SES2-ROOMB-1	14.00-14.20	<b>New Scheduling Model for Intelligent Resources Allocation Management in NGN</b> Fajar Rahayu, Muhamad Asvial and Fitri Yuli Zulkifli (Universitas Indonesia, Indonesia)
A-SES2-ROOMB-2	14.20-14.40	<b>Enhancing Packet Delivery Rate in Flying Ad-Hoc Network (FANET) Routing</b> Subhrapratim Nath (Jadavpur University, India); Indrajit Das and Sanjoy Roy (Meghnad Saha Institute of Technology, India); Abir Jana, Jamuna Kanta Sing and Subir Kumar Sarkar (Jadavpur University, India)
A-SES2-ROOMB-3	14.40-15.00	<b>Full-duplex of Optical Relaying Network in FSO Communications to Provide Broadband Internet Connection in Rural Area</b> Ucuk Darusalam (Universitas Nasional, Indonesia); Fitri Yuli Zulkifli, Purnomo Priambodo and Eko Tjipto Rahardjo (Universitas Indonesia, Indonesia)

ROOM: C

TRACK: SUSTAINABILITY AND ENVIRONMENT

A-SES2-ROOMC-1	14.00-14.20	<b>Demand Response in a Residential Building Using Multi Agent Control System</b> M.A. Kalhan Sandaru Boralessa, H.L.Pasitha Vidana, T.A.S.E.Wimalasiri, D.D.P.Hettiarachchi, A.H.C.Dewanthi, H.V.Vimukkthi Priyadarshana and K.T.M. Udayanga Hemapala (University of Moratuwa, Sri Lanka)
A-SES2-ROOMC-2	14.20-14.40	<b>Effect of the Different Objective Function Formulations on DOCR Setting Optimization</b> Thiramuni Sisitha Sameera Senarathna, M A Kalhan Sandaru Boralessa and KTM Udayanga Hemapala (University of Moratuwa, Sri Lanka)
A-SES2-ROOMC-3	14.40-15.00	<b>Penta-band Frequency Microstrip Antenna for Disaster Management</b> Aisya Nur Aulia Yusuf, Fitri Yuli Zulkifli and Eko Tjipto Rahardjo (Universitas Indonesia, Indonesia)

## Parallel Session III

ROOM: A

TRACK: HEALTH CARE TECHNOLOGIES

A-SES3-ROOMA-1	15.30-15.50	<b>Low-Cost Continuous-Wave Radar System Design for Detection of Human Respiration Rate</b> Alvin Senjaya and Fitri Yuli Zulkifli (Universitas Indonesia, Indonesia)
A-SES3-ROOMA-2	15.50-16.10	<b>Finger Movement Recognition Based on Muscle Synergy Using Electromyogram</b> Prastuti Shivam and Nayan M. Kakoty (Tezpur University, India); Malarvili Balakrishnan (Universiti Teknologi Malaysia, Malaysia); Prihartini Widiyanti (Faculty of Science and Technology Universitas Airlangga, Indonesia)
A-SES3-ROOMA-3	16.10-16.30	<b>Eye Blink Controlled Low Cost Smart Wheel Chair Aiding Disabled People</b> Md Ashiqur Rahman Apu, Imran Fahad, Shaikh Anowarul Fattah and Celia Shahnaz (Bangladesh University of Engineering and Technology, Bangladesh)

ROOM: B

TRACK: NETWORK INFRASTRUCTURE TECHNOLOGIES

A-SES3-ROOMB-1	15.30-15.50	<b>Leveraging SDN and NFV for Provisioning Quality Network Infrastructure for Filipino Public Schools</b> Jacob Miguel D. Pineda, Julian Troy C. Valdez, Wilson M. Tan (University of the Philippines Diliman, Philippines)
A-SES3-ROOMB-2	15.50-16.10	<b>Comprehensive Digital Instrument Cluster for Vehicle Monitoring by Using Flutter Framework</b> Abdul Muis and Ahmad Dhiyaaul Auliyaa (Universitas Indonesia, Indonesia)
A-SES3-ROOMB-3	16.10-16.30	<b>Single Mode Porous Core Photonic Crystal Fiber for THz Wave Propagation with Extremely Low Losses</b> Md. Moshir Rahman, Farhana Akter Mou and Md. Abdullah Al Mahmud (University of Asia Pacific, Bangladesh); Mohammed Imamul Hassan Bhuiyan (Bangladesh University of Engineering and Technology, Bangladesh)

ROOM: C

TRACK: ROBOTICS & AUTOMATION SYSTEMS

A-SES3-ROOMC-1	15.30-15.50	<b>Low Cost Smart Home Automation System Using Smart Phone</b> Ravi Kishore Kodali, Sasweth C Rajanarayanan and Lakshmi Boppana (National Institute of Technology, Warangal, India), Samradh Sharma and Ankit Kumar (National Institute of Technology, Tadepalligudem, India)
A-SES3-ROOMC-2	15.50-16.10	<b>Evaluation of the ROOT Robot System and Curriculum to Improve Computational Thinking in Children</b> Yanting Liu (Guangdong University of Technology, P.R. China); Juan Rojas (Guangdong University of Technology & GDUT, P.R. China)
A-SES3-ROOMC-3	16.10-16.30	<b>A Vision Based Smart Multihead Weighing Machine for Automated Food Packager System</b> Radhamadhab Dalai and Kishore Kumar Senapati (BIT mesra, India)

Thursday, November 14th 2019

## Parallel Session I

ROOM: A

TRACK: POWER & ENERGY SYSTEMS

B-SES1-ROOMA-1	13.00-13.20	<b>Global Grid - Role of HVDC Interconnectors in the Future Power Systems</b> Alexandre Oudalov (ABB Power Grids Switzerland Ltd., Switzerland), Peter Lundberg (ABB Power Grids Sweden Ltd., Sweden)
B-SES1-ROOMA-2	13.20-13.40	<b>Developing a Three Phase Z Source Inverter Model and Simulating the Bidirectional Functionality</b> M.A. Kalhan Sandaru Boralessa, W.H. Eranga, T.S.S. Senarathna, H. V. V. Priyadarshana, K.T.M.U Hemapala (University of Moratuwa, Sri Lanka)
B-SES1-ROOMA-3	13.40-14.00	<b>Analysis of IPMSM Characteristics in Conversion of Six to Three-Phase for Fault Tolerant Operation</b> Hojin Jeong, Hyonjang Lee and Jeihoon Baek (Korea University of Technology and Education, Korea); Sangshin Kwak (Chung-ang University, Korea); Namhun Kim (Erae Automotive, Korea)

ROOM: B

TRACK: EMPOWERMENT AND SUSTAINABILITY

B-SES1-ROOMB-1	13.00-13.20	<b>Case Study on Co-design Methodology for Improved Cook Stove Solutions for Rural Community in India</b> Krishna Nandan, Renjith Mohan and Harish Mohan (Amrita Centre for International Program, Amrita Vishwa Vidyapeetham, India); Olamide Sadipe, Iona Williams and Teja Potocnik (The University of Manchester, United Kingdom (Great Britain))
B-SES1-ROOMB-2	13.20-13.40	<b>Analysis and Design of Patriot Pangan: Towards Electronic Participation and Initiative Platform to Help Reduce Food Insecurity in Indonesia</b> Arga Putra Panatagama, Yani Nurhadryani and Auzi Asfarian (Bogor Agricultural University, Indonesia)
B-SES1-ROOMB-3	13.40-14.00	<b>Marriage or Childbearing: Determinants of Women's Employment in Indonesia</b> Diahhadi Setyonaluri (Universitas Indonesia, Indonesia); Yukari Shirota (Gakushuin University, Japan)

ROOM: C

TRACK: WATER MANAGEMENT SYSTEMS

B-SES1-ROOMC-1	13.00-13.20	<b>IoT Monitoring Setup for Waste Water Treatment</b> Ravi Kishore Kodali, Sasweth C Rajanarayanan and Sindhuja Yadavilli (National Institute of Technology, Warangal, India)
B-SES1-ROOMC-2	13.20-13.40	<b>Remote Sensing Kit for Contamination Event Detection in Water</b> Md. Siam, Jahidul Islam Munna, Mahamud Hasan and Tanzilur Rahman (North South University, Bangladesh)
B-SES1-ROOMC-3	13.40-14.00	<b>Water Management Through Integrated Technologies, a Sustainable Approach for Village Pandori, India</b> Hemasagar Kadiveti, Sahithi Eleshwaram, Renjith Mohan, Aripasath S., Krishna Nandan, Divya Sharma S.G., and Siddharth B. (Amrita Centre for International Program, Amrita Vishwa Vidyapeetham, India)

## Parallel Session II

ROOM: A

TRACK: HEALTHCARE & SCIENCE

B-SES2-ROOMA-1	14.00-14.20	<b>IoT Enabled Navigation System for Blind</b> Nirmal A Kumar, Yazin H Thangal and Sunitha Beevi K (TKM College of Engineering, India)
B-SES2-ROOMA-2	14.20-14.40	<b>Evaluation of Navigation Commands Based on Conceptual Attributes to Enhance Human-Robot Interaction</b> H.M. Ravindu T. Bandara, K.S. Priyanayana, H.P. Chapa Sirithunge, A.G.B.P. Jayasekara, D.P. Chandima and R.A.R.C. Gopura (University of Moratuwa, Sri Lanka)
B-SES2-ROOMA-3	14.40-15.00	<b>Exploring Feature Selection of EEG Signal Time Frequency Domain Feature for k-NN and Weighted k-NN</b> Theresia Diah Kusumaningrum, Akhmad Faqih and Benyamin Kusumoputro (Universitas Indonesia, Indonesia)

ROOM: B

TRACK: IOT & COMMUNICATION TECHNOLOGIES

B-SES2-ROOMB-1	14.00-14.20	<b>Analysis of Super-Position of Plane Wave Channel Model Based on Beamwidth and Number of Paths</b> Rafi Ramadhana and Ajib S. Arifin (Universitas Indonesia, Indonesia)
B-SES2-ROOMB-2	14.20-14.40	<b>LoRa Characteristics Analysis for IoT Application Using NS-3 Simulator</b> Eka Kurnia Sari, Ayubi Wirara, Ruki Harwahyu and Riri Fitri Sari (Universitas Indonesia, Indonesia)
B-SES2-ROOMB-3	14.40-15.00	<b>Evaluating Steady-state Performance in Narrowband Internet of Things (NB-IoT)</b> Hamonangan Kinantan Prabu, Risma Lukitowati, Hadisurya Chandra Kusuma, Ruki Harwahyu and Riri Fitri Sari (Universitas Indonesia, Indonesia)

ROOM: C

TRACK: DISASTER MANAGEMENT

B-SES2-ROOMC-1	14.00-14.20	<b>Towards Prediction of Landslide Susceptibility Using Random Forest for Kalutara District, Sri Lanka</b> Lasini Liyanage, Oshani Weerakoon, Sachini Palliyaguru and Prasad Wimalaratne (University of Colombo, Sri Lanka)
B-SES2-ROOMC-2	14.20-14.40	<b>A Comparative Analysis of Machine Learning Techniques for Disaster-Related Tweet Classification</b> Abhinav Kumar and Jyoti Prakash Singh (National Institute of Technology Patna, India); Sunil Saumya (IIIT Dharwad, India)
B-SES2-ROOMC-3	14.40-15.00	<b>Optimal Microgrid Formation to Improve the Resilience of Power System Withstanding the Storm</b> Victor Widiputra, Seongmun Oh and Jaesung Jung (Ajou University, Korea)

## Parallel Session III

ROOM: A

TRACK: RENEWABLE ENERGY EDUCATION AND AWARENESS

B-SES3-ROOMA-1	15.30-15.50	<p><b>Sharing Light and Knowledge to Underdeveloped Village with Portable House Lighting System</b></p> <p>S. Sujono, Akhmad Musafa, Peby Wahyu Purnawan, Suwasti Broto, Rummi Sirait, Nifty Fath and Eka Purwa Laksana (Universitas Budi Luhur, Indonesia); Indra Riyanto (Universitas Budi Luhur, Indonesia and Universitas Indonesia, Indonesia)</p>
B-SES3-ROOMA-2	15.50-16.10	<p><b>Design and Applications of Solar Lantern Using Off-the-shelf Components for Humanitarian Activities</b></p> <p>Henri Uranus, Josavan Ezekhiel, Budi Khusnandar, Andrew Dwijanto, Dwi Heri Yulian and Rianto Mangunsong (Universitas Pelita Harapan, Tangerang, Indonesia)</p>
B-SES3-ROOMA-3	16.10-16.30	<p><b>Development of Gameplay Design for Renewable Energy Learning Based on Augmented Reality</b></p> <p>Muhammad Salehuddin and Marcel Bonar Kristanda (Universitas Multimedia Nusantara, Indonesia)</p>

ROOM: B

TRACK: FOOD, AGRICULTURE & ENVIRONMENT

B-SES3-ROOMB-1	15.30-15.50	<p><b>Banana Ripeness Analysis Using Reflectance and Photoluminescence</b></p> <p>Ismira Lewa (Research Center for Physics, Indonesian Institute of Science, Indonesia and Diponegoro University, Indonesia); Cece and Isnaeni (Research Center for Physics, Indonesian Institute of Sciences, Indonesia)</p>
B-SES3-ROOMB-2	15.50-16.10	<p><b>Microplastics and Mercury Detection on Anchovy from Alor and Balikpapan Harbors, Indonesia</b></p> <p>Endar Widiah Ningrum and Mufi Petala Patria (Universitas Indonesia, Indonesia)</p>
B-SES3-ROOMB-3	16.10-16.30	<p><b>IoT Based Vehicular Air Quality Monitoring System</b></p> <p>Ravi Kishore Kodali, Sasweth C Rajanarayanan and Lakshmi Boppana (National Institute of Technology, Warangal, India)</p>

ROOM: C

TRACK: BLOCKCHAIN & INFORMATION TECHNOLOGIES

B-SES3-ROOMC-1	15.30-15.50	<p><b>The Fuzzy Emotion Recognition Framework Using Semantic-Linguistic Facial Features</b></p> <p>Dewi Yanti Liliانا (State Polytechnic of Jakarta, Indonesia); T. Basaruddin (Universitas Indonesia, Indonesia)</p>
B-SES3-ROOMC-2	15.50-16.10	<p><b>On Developing the Model of Blockchain Technology for Logistic Services in Indonesia</b></p> <p>Rachmat Herdyono Saputra and Muhammad Suryanegara (Universitas Indonesia, Indonesia)</p>
B-SES3-ROOMC-3	16.10-16.30	<p><b>A Review of Lightweight Blockchain Technology Implementation to the Internet of Things</b></p> <p>Delphi Hanggoro and Riri Fitri Sari (University of Indonesia, Indonesia)</p>