

**Technical Program for Monday November 30, 2020 (GMT+0800)**

<b>09:00-13:00</b> <b>Workshop on Data Analytics Using Machine Learning Techniques</b>	<b>2020 IEEE R10 POCO Kuala Lumpur (Panel of Conference Organizers)</b>
Dr. Rathimala Kannan	Time: 0800-1400
<b>14:00-17:00</b> <b>Special Session on IEEE Humanitarian Technology</b>	Please refer to the website link: <a href="https://ieeemy.org/poco2020/programs/">https://ieeemy.org/poco2020/programs/</a>
<b>14:00-15:00</b> Humanitarian Activities and Technologies during Covid-19 Pandemic in Asia Pacific Region by Professor Celia Shahnaz	
<b>15:00-15:30</b> Activities of IEEE Sarawak SIGHT by Dr. Then Yi Lung	
<b>15:30-17:00</b> Introduction for IEEE SIGHT; Effective Community Engagement to Design Sustainable Humanitarian Projects to Combat COVID19 by Assoc. Prof. Jin Dong, Prof. Shaikh Fattah	

**Please register and join the room below for the above session.**

**HTC Central Room - Special (Capacity: 500) 30/11/2020 8:00am – 8:00pm**

Topic: HTC Conference Central Room (30/11/2020)

Time: Nov 30, 2020 08:00 AM Kuala Lumpur

Register in advance for this meeting:

<https://zoom.us/meeting/register/tJ0lceuuqT4oEtTC-u4Xi4drrC7DcWMrWXjH>

Meeting ID: 998 6267 5280

Passcode: **654321**

Meeting links: <https://zoom.us/j/99862675280?pwd=K1lRzUyV1VCclMzQjRtUEFpMzhYQT09>

**Technical Program for Tuesday December 1, 2020**

<b>08:30-09.00</b>	
Opening by Assoc. Prof Lau Bee Theng, Assoc. Prof Mohammad Faizal	
<b>09:00-09:30</b>	
Recent IEEE Region 10 Development and Activities by Professor Akinori Nishiharas	
<b>09:30-10:30</b>	Keynote Session 1
<b>Internet-of-Things (IoT): Accelerating the Smart City Revolution by Assoc. Prof. Sye Loong Keoh</b>	
Chair: Ir. Dr. David Bong Boon Lian	Universiti Malaysia Sarawak
<p>The programme starts at 830am and you may register and join the room below.</p> <p><b>DAY 1 Central Room (Capacity: 500) 8:00am – 10:00am</b></p> <p>Topic: Day 1: HTC Conference Central Room (1/12/2020)          Time: Dec 1, 2020 08:00 AM Kuala Lumpur          Register in advance for this meeting:  <a href="https://zoom.us/meeting/register/tJwqfuihrTotHdKI3tYlW-lrsj9B9GdGTtoA">https://zoom.us/meeting/register/tJwqfuihrTotHdKI3tYlW-lrsj9B9GdGTtoA</a>          Meeting ID: 987 9193 1776          Passcode: <b>654321</b>          Meeting links: <a href="https://zoom.us/j/98791931776?pwd=QVvnWnFKVkh1TzBDVE9sbUx1SXF3UT09">https://zoom.us/j/98791931776?pwd=QVvnWnFKVkh1TzBDVE9sbUx1SXF3UT09</a></p>	
<b>Computing and Information Technology</b>	Parallel Session 1- Room1
<b>DAY 1 Virtual Room 1 (Capacity: 100) 10:00am – 5:30pm</b>	
<p>Topic: Day 1: HTC Virtual Room 1 (1/12/2020)          Time: Dec 1, 2020 10:00 AM Kuala Lumpur          Register in advance for this meeting:  <a href="https://zoom.us/meeting/register/tJEsfuCgpjoqHtTJtvf9iT4P6yG-TyNDCjQr">https://zoom.us/meeting/register/tJEsfuCgpjoqHtTJtvf9iT4P6yG-TyNDCjQr</a>  <b>Meeting link:</b> <a href="https://zoom.us/j/95199881040?pwd=TUpMelk4L0VJaUNUVGZZVXRLWmVRUT09">https://zoom.us/j/95199881040?pwd=TUpMelk4L0VJaUNUVGZZVXRLWmVRUT09</a></p>	
Chair: <b>Dr. Mark Tee Kit Tsun</b>	Swinburne University of Technology Sarawak Campus
10:30-10:45, Submission ID 10	
<i>Storage Efficient Data Security Model for Distributed Cloud Storage</i>	
Arfatul Mowla Shuvo	East Delta University
Md. Salauddin Amin	East Delta University
Promila Haque	East Delta University
10:45-11:00, Submission ID 11	
<i>Image Cryptography using Multichannel Filterbank</i>	
Vivek Khalane	Ramrao Adik Institute of Technology
Umesh Bhadade	SSBTs College of Engineering and Technology
11:00-11:15, Submission ID 29	

<i>An Exploration of Motion Tracking and Gamification in Telerehabilitation for Stroke Survivors</i>	
Atiquil Islam	Swinburne University of Technology Sarawak Campus
Josiah Yang Qi	Swinburne University of Technology Sarawak Campus
Mark Tee Kit Tsun	Swinburne University of Technology Sarawak Campus
Bee Theng Lau	Swinburne University of Technology Sarawak Campus
11:15-11:30, Submission ID 38	
<i>Emotion Recognition and Discrimination of Facial Expressions using Convolutional Neural Networks</i>	
Ayodhya Manewa	University of Jaffna
Barathy Mayurathan	University of Jaffna
11:30-11:45, Submission ID 63	
<i>CaneFX - An Interactive White Cane Learning Tool for People with Visual Impairment</i>	
Derrick Kuo Xiong Ling	Swinburne University of Technology Sarawak Campus
Bee Theng Lau	Swinburne University of Technology Sarawak Campus
Aylwin Bing Chun Chai	Swinburne University of Technology Sarawak Campus
Lil Deverell	Guide Dogs Victoria
Michael Evans	Guide Dogs Victoria
<b>Computing and Information Technology</b>	<b>Parallel Session 1-Room2</b>
<b>DAY 1 Virtual Room 2 (Capacity: 100) 10:00am – 5:30pm</b>	
Topic: Day 1: HTC Virtual Room 2 (1/12/2020)	
Time: Dec 1, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting:	
<a href="https://zoom.us/meeting/register/tJlpduisrToiGNSYRzqJd-knlmv_3TkiL_hg">https://zoom.us/meeting/register/tJlpduisrToiGNSYRzqJd-knlmv_3TkiL_hg</a>	
<b>Meeting link:</b> <a href="https://zoom.us/j/96411431820?pwd=d2kxL1BXbnM2MjFEM0FjRXFBbGo0dz09">https://zoom.us/j/96411431820?pwd=d2kxL1BXbnM2MjFEM0FjRXFBbGo0dz09</a>	
Chair: <b>Dr. Wan-Tze Vong</b>	Swinburne University of Technology Sarawak Campus
10:30-10:45, Submission ID 65	
<i>Identification and Mitigation Tool for Cross-Site Request Forgery (CSRF)</i>	
Mohan Randeniya	Sri Lanka Institute of Information Technology
Windhya Rankothge	Sri Lanka Institute of Information Technology
10:45-11:00, Submission ID 76	
<i>An Intelligent Framework for Malware Detection in Internet of Things (IoT) Ecosystem</i>	
Osaretin Eboya	Asia Pacific University
Julia Binti Juremi	Asia Pacific University
Maryam Shahpasand	Staffordshire University
11:00-11:15, Submission ID 78	
<i>SmartCop: An Automated Platform to Mitigate the Impact of Road Accidents</i>	
Sewwandi A.K.T.	Sri Lanka Institute of Information Technology
Dissanayake D.M.K.P.	Sri Lanka Institute of Information Technology
Navanjani D.H.K.H.	Sri Lanka Institute of Information Technology
Shangavie R.	Sri Lanka Institute of Information Technology
Rankothge W.H.	Sri Lanka Institute of Information Technology
Narmada Gamage	Sri Lanka Institute of Information Technology
11:15-11:30, Submission ID 114	
<i>Accelerating Innovations through Literature-based Discovery: Qualitative Analysis of an Early Usability Evaluation</i>	
Celina Sze Jun Phang	Swinburne University of Technology Sarawak Campus
Wan-Tze Vong	Swinburne University of Technology Sarawak Campus
Yakub Sebastian	Charles Darwin University

Valliappan Raman	Swinburne University of Technology Sarawak Campus
Xun Ting Tiong	Sarawak General Hospital
Patrick Hang Hui Then	Swinburne University of Technology Sarawak Campus
11:30-11:45, Submission ID 150	
<i>Query Oriented Topical Clusters Detection for Top-k Trending Topics in Twitter</i>	
Md Shoaib Ahmed	Jahangirnagar University
Tanjim Taharat Aurpa	Jahangirnagar University
Md Musfique Anwar	Jahangirnagar University
<b>Artificial Intelligence</b>	<b>Parallel Session 1-Room3</b>
<p><b>DAY 1 Virtual Room 3 (Capacity: 500) 10:00am – 5:30pm</b>  Topic: Day 1: HTC Virtual Room 3 (1/12/2020)  Time: Dec 1, 2020 10:00 AM Kuala Lumpur  Register in advance for this meeting:  <a href="https://zoom.us/meeting/register/tJYpdeurpzovHdXRvpjLgn7uBMMBTzwByWui">https://zoom.us/meeting/register/tJYpdeurpzovHdXRvpjLgn7uBMMBTzwByWui</a></p> <p><b>Meeting link:</b> <a href="https://zoom.us/j/92422391571?pwd=SXpEZHVheVU5UnVMMjZHMWtXaW9JQT09">https://zoom.us/j/92422391571?pwd=SXpEZHVheVU5UnVMMjZHMWtXaW9JQT09</a></p>	
Chair: Prof Yoot Khuan Lee	Universiti Teknologi MARA
10:30-10:45, Submission ID 16	
<i>Water Stress Identification in Chickpea Images using Machine Learning</i>	
Shiva Azimi	Indian Institute of Technology-Delhi
Tapan Gandhi	Indian Institute of Technology-Delhi
10:45-11:00, Submission ID 31	
<i>Exploiting Various Word Embedding Models for Query Expansion in Microblog</i>	
Shafayet Ahmed	University of Chittagong
Abu Nowshed Chy	University of Chittagong
Md Zia Ullah	IRIT UMR5505, CNRS
11:00-11:15, Submission ID 32	
<i>Fusion of Hand-crafted Features and Deep Semantic Features in a Unified Neural Model for Irony Detection in Microblogs</i>	
Sakifa Shah	University of Chittagong
Abu Nowshed Chy	University of Chittagong
11:15-11:30, Submission ID 77	
<i>Dengue Prediction using Machine Learning Algorithms</i>	
Dhiman Sarma	Rangamati Science and Technology University
Sohrab Hossain	East Delta University
Tanni Mittra	East West University
Md. Abdul Motaleb Bhuiya	University of Science and Technology Chittagong
Ishita Saha	University of Science and Technology Chittagong
Ravina Chakma	East Delta University
11:30-11:45, Submission ID 86	
<i>Prediction of Road Accident and Severity of Bangladesh Applying Machine Learning Techniques</i>	
Joy Paul	Rajshahi University of Engineering and Technology
Zerin Jahan	Rajshahi University of Engineering and Technology
Kazi Fahim Lateef	Rajshahi University of Engineering and Technology
Sagor Chandro Bakchy	Rajshahi University of Engineering and Technology
Md. Robiul Islam	Rajshahi University of Engineering and Technology
11:45-12:00, Submission ID 94	
<i>Indirect Measurement of Dissolved Oxygen Based on Algae Growth Factors Using Machine Learning Models</i>	

Sandy Lauguico	De La Salle University
Ronnie Il Concepcion	De La Salle University
Rogelio Ruzcko Tobias	De La Salle University
Jonnel Alejandrino	De La Salle University
Dailyne Macasaet	De La Salle University
Elmer Dadios	De La Salle University

<b>Healthcare &amp; Biomedical Engineering</b>	<b>Parallel Session 2-Room1</b>
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**DAY 1 Virtual Room 1 (Capacity: 100) 10:00am – 5:30pm**

Topic: Day 1: HTC Virtual Room 1 (1/12/2020)

Time: Dec 1, 2020 10:00 AM Kuala Lumpur

Register in advance for this meeting:

[https://zoom.us/meeting/register/tJEsfuGgpjoqHtTJtvf9iT4P6yG-TyNDCjQr](https://zoom.us/join/joinMeeting?j=95199881040?pwd=TUpMelk4L0VJaUNUVGZZVXRLWmVRUT09)

**Meeting link:** <https://zoom.us/j/95199881040?pwd=TUpMelk4L0VJaUNUVGZZVXRLWmVRUT09>

Chair: **Prof. Su Hieng Tiong** Swinburne University of Technology Sarawak Campus

14:00-14:15, Submission ID 27

*Evaluating Usability of Pregnancy Tracker Applications in Bangladesh: A Heuristic and Semiotic Evaluation*

Shusmoy Kundu	Military Institute of Science and Technology
Anusha Kabir	Military Institute of Science and Technology
Muhammad Nazrul Islam	Military Institute of Science and Technology

14:15-14:30, Submission ID 34

*Robotic Assistance for the Endoscopic Steering*

Gevindu Wickramaarachchi	University of Moratuwa
Melanie Amarasooriya	Health Ministry Sri Lanka

14:30-14:45, Submission ID 35

*A Design and Trial Production of EEGNet based EEG Pattern Recognition Processor using FPGA*

Akihiko Tsukahara	Tokyo Denki University
Yuki Anzai	Tokyo Denki University
Keita Tanaka	Tokyo Denki University
Akihiko Homma	Tokyo Denki University
Yoshinori Uchikawa	Tokyo Denki University

14:45-15:00, Submission ID 36

*Clarification of Perceived Phosphenes Positions by tACS considering Electrical Current Flow and Exposed Visual Retinae*

Manami Kanamaru	Shibaura Institute of Technology
Tan Phan Xuan	Shibaura Institute of Technology
Eiji Kamioka	Shibaura Institute of Technology

<b>Healthcare &amp; Biomedical Engineering</b>	<b>Parallel Session 2-Room2</b>
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**DAY 1 Virtual Room 2 (Capacity: 100) 10:00am – 5:30pm**

Topic: Day 1: HTC Virtual Room 2 (1/12/2020)

Time: Dec 1, 2020 10:00 AM Kuala Lumpur

Register in advance for this meeting:

[https://zoom.us/meeting/register/tJlpduisrToiGNSYRzqJd-knlmv\\_3TkiL\\_hg](https://zoom.us/meeting/register/tJlpduisrToiGNSYRzqJd-knlmv_3TkiL_hg)

<b>Meeting link:</b> <a href="https://zoom.us/j/96411431820?pwd=d2kxL1BXbnM2MjFEM0FjRXFBbGo0dz09">https://zoom.us/j/96411431820?pwd=d2kxL1BXbnM2MjFEM0FjRXFBbGo0dz09</a>	
Chair: Assoc. Prof. <b>Fawnizu Azmadi</b>	Universiti Teknologi Petronas
14:00-14:15, Submission ID 42	
<i>Design and Development of a Low-Cost Powered Air-Purifying Respirator for Frontline Medical Workers for COVID-19 Response</i>	
Vishnu Jayan	Amrita Vishwa Vidyapeetham
Ayyappan Ajan	Amrita Vishwa Vidyapeetham
Harish Mohan	Amrita Vishwa Vidyapeetham
Gayathri Manikutty	Amrita Vishwa Vidyapeetham
Deepu Sasi	Amrita Vishwa Vidyapeetham
Bhavani Rao	Amrita Vishwa Vidyapeetham
14:15-14:30, Submission ID 45	
<i>Quantitative Analysis of Reconstructed Conductivity Images Using Phase-based Electrical Properties Method at 3T MR</i>	
Xiangdong Sun	University of Electronic Science and Technology of China
Lijun Lu	Southern Medical University
Shuangyang Zhang	Southern Medical University
Li Qi	Southern Medical University
Xiaoyun Liu	University of Electronic Science and Technology of China
Wufan Chen	University of Electronic Science and Technology of China
14:30-14:45, Submission ID 54	
<i>A Preliminary Study on Effectiveness of an Ingeniously Developed Wearable Assistive Device</i>	
Vishnu Rajendran S	Amrita Vishwa Vidyapeetham
Harish Mohan T	Amrita Vishwa Vidyapeetham
Bhavani Rao R	Amrita Vishwa Vidyapeetham
Jogesh S Nanda	Amrita Vishwa Vidyapeetham
Karishma Sebastian	Amrita Vishwa Vidyapeetham
14:45-15:00, Submission ID 79	
<i>Noninvasive Blood Glucose Measurement Using Live Video by Smartphone</i>	
Jannatun Sumaiya	Khulna University of Engineering & Technology
Md. Rakibul Hasan	Khulna University of Engineering & Technology
Eklas Hossain	Oregon Institute of Technology

<b>Healthcare &amp; Biomedical Engineering</b>	<b>Parallel Session 2-Room3</b>
<b>DAY 1 Virtual Room 3 (Capacity: 500) 10:00am – 5:30pm</b>	
Topic: Day 1: HTC Virtual Room 3 (1/12/2020)	
Time: Dec 1, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting:	
<a href="https://zoom.us/meeting/register/tJYpdeurpzovHdXRvpjLgn7uBMMBTzwByWui">https://zoom.us/meeting/register/tJYpdeurpzovHdXRvpjLgn7uBMMBTzwByWui</a>	
<b>Meeting link:</b> <a href="https://zoom.us/j/92422391571?pwd=SXpEZHVheVU5UnVMMjZHMWtXaW9JQT09">https://zoom.us/j/92422391571?pwd=SXpEZHVheVU5UnVMMjZHMWtXaW9JQT09</a>	
Chair: <b>Prof Zuhaina Zakaria</b>	Universiti Teknologi MARA
14:00-14:15, Submission ID 88	
<i>Automatic Detection of COVID-19 Disease in Chest X-Ray Images using Deep Neural Networks</i>	
Mohammad Mahmudur Rahman Khan	Vanderbilt University
Shadman Sakib	University of Hyogo

Md. Abu Bakr	International University of Business Agriculture and Technology
Madiha Chowdhury	Bangladesh University of Engineering and Technology
Ziad Hossain	North South University
Anas Aziz	Military Institute of Science and Technology
Nowrin Yasmin	Ahsanullah University of Science and Technology
14:15-14:30, Submission ID 89	
<i>Blood Type Identification Through Spectrophotometry and Optical Density Analysis</i>	
Jennifer Dela Cruz	Mapua University
Micko Marquez	Mapua University
Johann Sebastian Ronquillo	Mapua University
Vince Harvey Sebastian	Mapua University
14:30-14:45, Submission ID 96	
<i>Understanding Business Intelligence in The Context of Mental Healthcare Sector of Bangladesh for Improving Health Services</i>	
Zerin Nasrin Tumpa	Daffodil International University
Mohd. Saifuzzaman	Daffodil International University
SK. Fazlee Rabby	Daffodil International University
Linda Crearie	University of the West of Scotland Scotland, UK
Mark Stansfield	University of the West of Scotland Scotland, UK
14:45-15:00, Submission ID 121	
<i>Towards an Efficient and Secure Blood Bank Management System</i>	
W.A.D.T.L. Wijayaweera	Sri Lanka Institute of Information Technology
P.A.J. Sanadaruwan	Sri Lanka Institute of Information Technology
U.D.L. Dolapihilla	Sri Lanka Institute of Information Technology
D.W.N.R. Karunathilaka	Sri Lanka Institute of Information Technology
W. H. Rankothge	Sri Lanka Institute of Information Technology
N. Gamage	Sri Lanka Institute of Information Technology
15:00-15:15, Submission ID 124	
<i>A Cross-sectional Study on Awareness and Correlating Factors Towards COVID-19 among Adult Women in Dhaka City</i>	
Afzalon Nisa	Bangladesh Home Economics College
Shajada Akter` Khanam	Bangladesh Home Economics College
Md. Riad Hossain	Sher-E-Bangla Medical College
Md. Farhad Hassan	Islamic University of Technology

<b>Power &amp; Energy</b>	<b>Parallel Session 3-Room1</b>
<b>DAY 1 Virtual Room 1 (Capacity: 100) 10:00am – 5:30pm</b>	
Topic: Day 1: HTC Virtual Room 1 (1/12/2020)	
Time: Dec 1, 2020 10:00 AM Kuala Lumpur	
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<b>Meeting link:</b> <a href="https://zoom.us/j/95199881040?pwd=TUpMelk4LOVJaUNUVGZZVXRLWmVRUT09">https://zoom.us/j/95199881040?pwd=TUpMelk4LOVJaUNUVGZZVXRLWmVRUT09</a>	
Chair: <b>Dr. Then Yi Lung</b>	Swinburne University of Technology Sarawak Campus
16:15-16:30, Submission ID 20	
<i>Design and Development of a Hydraulic Ram Pump for the Rural Communities</i>	
Robiah Ahmad	Universiti Teknologi Malaysia

Shamsul Sarip	Universiti Teknologi Malaysia
Kamal Azam Bani Hashim	Universiti Teknologi Malaysia
Mohamad Azlan Suhot	Universiti Teknologi Malaysia
16:30-16:45, Submission ID 23	
<i>Optimal Design of Off-Grid Hybrid Renewable Energy System for Electrification of One Fathom Bank Malaysia</i>	
Abu Toalib	Universiti Teknologi Malaysia
Robiah Ahmad	Universiti Teknologi Malaysia
Norulhusna Ahmad	Universiti Teknologi Malaysia
16:45-17:00, Submission ID 62	
<i>Utilization of Photon Energy Collector Circuit in Harnessing Electrical Energy from a Compact Fluorescent Lamp (CFL)</i>	
Gerhard Tan	Polytechnic University of the Philippines
17:00-17:15, Submission ID 74	
<i>Solar Irradiance Prediction Based on Weather Patterns Using Bagging-Based Ensemble Learners with Principal Component Analysis</i>	
Justin de Guia	De La Salle University
Ronnie Concepcion II	De La Salle University
Hilario Calinao Jr.	De La Salle University
Rogelio Ruzcko Tobias	De La Salle University
Elmer Dadios	De La Salle University
Argel Bandala	De La Salle University
17:15-17:30, Submission ID 81	
<i>Short Term Performance Investigation of Solar PV Module: A Machine Learning Based Approach</i>	
Sabbir Ahmed	Brac University
Md. Kamrul Islam	Brac University
Mohaimenul Islam	Brac University
Md. Mosaddequr Rahman	Brac University

<b>Healthcare &amp; Biomedical Engineering</b>	<b>Parallel Session 3-Room2</b>
<b>DAY 1 Virtual Room 2 (Capacity: 100) 10:00am – 5:30pm</b>	
Topic: Day 1: HTC Virtual Room 2 (1/12/2020)	
Time: Dec 1, 2020 10:00 AM Kuala Lumpur	
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<b>Meeting link:</b> <a href="https://zoom.us/j/96411431820?pwd=d2kxL1BXbnM2MjFEM0FjRXFBbGo0dz09">https://zoom.us/j/96411431820?pwd=d2kxL1BXbnM2MjFEM0FjRXFBbGo0dz09</a>	
Chair: <b>Dr. Riady Siswojoyo</b>	Swinburne University of Technology Sarawak Campus
16:15-16:30, Submission ID 140	
<i>Label Card Segmentation and Calibration for Computerized Wound Measurement System</i>	
Topu Biswas	Multimedia University
Mohammad Faizal Ahmad Fauzi	Multimedia University
Fazly Salleh Abas	Multimedia University
Harikrishna K.R. Nair	Hospital Kuala Lumpur
16:30-16:45, Submission ID 141	
<i>Enhanced CNN Based Superpixel Classification for Automated Wound Area Segmentation</i>	
Topu Biswas	Multimedia University
Mohammad Faizal Ahmad Fauzi	Multimedia University

Fazly Salleh Abas Harikrishna K.R. Nair	Multimedia University Hospital Kuala Lumpur
16:45-17:00, Submission ID 149	
<i>Design of a Mixed Signal Bladder Control System with Sensor Front-End Readout and Drug Delivery Actuator based on TSMC 0.18um Technology</i>	
Angelito Silverio Lean Angelo Silverio Angelina Silverio	University of Santo Tomas University of Santo Tomas University of Santo Tomas
17:00-17:15, Submission ID 152	
<i>Micromotion Artefact Reduction of a Wrist Worn PPG Sensor Using Green Light PPG and sEMG</i>	
Angelito Silverio Jezzidin Asilo Stephen Lyndon Balagat Angelika Pineda Jimwel Tangi Bernadette Mae Piedra	University of Santo Tomas University of Santo Tomas University of Santo Tomas University of Santo Tomas University of Santo Tomas University of Santo Tomas

### Technical Program for Wednesday December 2, 2020

<b>08:30-09:30</b> <b>A Journey Towards Creating Impact with Technology for People by Dr Surapa Thiemjarus</b> <b>09:30-10:00</b> <b>Humanitarian Activities and Technologies for the 21st century by Associate Professor Supavadee Aramvith</b>	Keynote Session 2
Chair: Ir. Dr. David Bong Boon Lian	Universiti Malaysia Sarawak
<b>DAY 2 Central Room (Capacity: 500) 8:00am – 10:00am</b> Topic: Day 2: HTC Conference Central Room (2/12/2020) Time: Dec 2, 2020 08:00 AM Kuala Lumpur Register in advance for this meeting: <a href="https://zoom.us/meeting/register/tJ0pcuqrrzwsG9PjSNa4jTc5qhQ7gEzJqq7Q">https://zoom.us/meeting/register/tJ0pcuqrrzwsG9PjSNa4jTc5qhQ7gEzJqq7Q</a> Meeting ID: 994 5331 7617 Passcode: <b>654321</b> <b>Meeting link:</b> <a href="https://zoom.us/j/99453317617?pwd=L1VMRTQ0T29GM1BLRWVOREh1V0Rldz09">https://zoom.us/j/99453317617?pwd=L1VMRTQ0T29GM1BLRWVOREh1V0Rldz09</a>	
<b>Industrial Revolution 4.0; Digital Commerce, Blockchain Technologies &amp; FinTech; Disaster Management</b>	Parallel Session 4-Room1
<b>DAY 2 Virtual Room 1 (Capacity: 100) 10:00am – 5:30pm</b> Topic: Day 2: HTC Virtual Room 1 (2/12/2020) Time: Dec 2, 2020 10:00 AM Kuala Lumpur Register in advance for this meeting: <a href="https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09">https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09</a> Meeting link: <a href="https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09">https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09</a>	

Chair: <b>Chin Ann Ong</b>	PSB Academy
Co-Chair: Dr. Then Yi Lung	Swinburne University of Technology
10:30-10:45, Submission ID 18	
<i>Food Traceability and Prevention of Location Fraud using Blockchain</i>	
Kar Seng Loke	-
Chin Ann Ong	PSB Academy
10:45-11:00, Submission ID 21	
<i>Cultivating Traditional Malaysian Handicraft Market Demand through Social Media Technology</i>	
Hasliza Hassan	Multimedia University
Abu Bakar Sade	Universiti Putra Malaysia
Melissa Wendy Migin	Multimedia University
Ooi San Khaw	UCSI University
11:00-11:15, Submission ID 99	
<i>Financial Sustainability of the Construction Firms Towards the Era of Industrial Revolution 4.0: The Role of Technological Innovation</i>	
Hui Shan Lee	UTAR
Sin Yee Lee	UTAR
Wai Mun Har	UTAR
Shen Yap	UTAR
11:15-11:30, Submission ID 131	
<i>Tsunami Fighters: Collaborative Multilingual Mobile Game for Earthquake and Tsunami Disaster Preparedness Education</i>	
Rahma Rizky Alifia	Institut Teknologi Bandung
Fathiya Rahma	Institut Teknologi Bandung
Ulfa Hamida	Institut Teknologi Bandung
Allya Paramita Koesoema	Institut Teknologi Bandung
Yoke Saadia Irawan	Institut Teknologi Bandung
Shinichi Egawa	Tohoku University

<b>Education</b>	Parallel Session 4-Room2
<b>DAY 2 Virtual Room 2 (Capacity: 100) 10:00am – 5:30pm</b>	
Topic: Day 2: HTC Virtual Room 2 (2/12/2020)	
Time: Dec 2, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting:	
<a href="https://zoom.us/meeting/register/tJUqce2gpjouH9E-LKyGa_85iNTAonTmB0Nm">https://zoom.us/meeting/register/tJUqce2gpjouH9E-LKyGa_85iNTAonTmB0Nm</a>	
Meeting link: <a href="https://zoom.us/j/91764881455?pwd=cEc4SFIYU2dOa01UY0VZcStqSm1LUT09">https://zoom.us/j/91764881455?pwd=cEc4SFIYU2dOa01UY0VZcStqSm1LUT09</a>	
Chair: <b>Assoc. Prof. Lau Bee Theng</b>	Swinburne University of Technology Sarawak Campus
10:30-10:45, Submission ID 24	
<i>Integrating Humanitarian Technology in Computer Science Education to Internalize Independent Campus Policy: A Case in IPB University</i>	
Auzi Asfarian	IPB University
Dean Apriana Ramadhan	IPB University
Firman Ardiansyah	IPB University
10:45-11:00, Submission ID 25	
<i>Analysis of Students' Experience on the Quality of Educational Services</i>	
Otgonchimeg Baljinnyam	Mongolian University of Science and Technology
Oidov Sharavdorj	Mongolian University of Science and Technology

11:00-11:15, Submission ID 39	
<i>MICD - A Framework for Designing Micro-Conclusions for Micro-Lectures</i>	
Siddharth Srivastava	Indian Institute of Technology Kanpur
T.V. Prabhakar	Indian Institute of Technology Kanpur
11:15-11:30, Submission ID 80	
<i>An Investigation on Distributive Leadership Practice In A Malaysian Public University</i>	
Daljeet Singh Sedhu	Universiti Teknologi MARA Perak Branch
Khalip Musa	Universiti Pendidikan Sultan Idris
Puteri Rohani Megat Abdul Rahim	Universiti Teknologi MARA Perak Branch

<b>Education</b>	<b>Parallel Session 4-Room3</b>
<b>DAY 2 Virtual Room 3 (Capacity: 500) 10:00am – 5:30pm</b>	
Topic: Day 2: HTC Virtual Room 3 (2/12/2020)	
Time: Dec 2, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting:	
<a href="https://zoom.us/meeting/register/tJckdOuhri8pGdIKfJQnzqe9pyURnbnU27R3">https://zoom.us/meeting/register/tJckdOuhri8pGdIKfJQnzqe9pyURnbnU27R3</a>	
Meeting link: <a href="https://zoom.us/j/93932904336?pwd=VHBheVFzbVFqN1I2NkFLc3IKdjZz09">https://zoom.us/j/93932904336?pwd=VHBheVFzbVFqN1I2NkFLc3IKdjZz09</a>	
Chair: <b>Dr. Tay Fei Siang</b>	Swinburne University of Technology Sarawak Campus
10:30-10:45, Submission ID 108	
<i>Content Development for study of Mechanical and Electrical behavioural aspects of Three Phase Induction Machine on a 3D platform</i>	
Kruthik HM	B.M.S. College of Engineering
Guru Kiran Prabhu	B.M.S. College of Engineering
Mukund S	B.M.S. College of Engineering
Meena P	B.M.S. College of Engineering
Sreekanth Vasudev Nagar	B.M.S. College of Engineering
10:45-11:00, Submission ID 113	
<i>A Blockchain-based Collaboration Framework for Educational Resources Sharing</i>	
Hui Chen Chou	Kyoto University
11:00-11:15, Submission ID 119	
<i>SimboWika: A Mobile and Web Application to Learn Filipino Sign Language for Deaf Students in Elementary Schools</i>	
Nico Ace Empe	National University
Raniel Cyrus Echon	National University
Herson Dave Vega	National University
Patrick Lenard Paterno	National University
Marilou Jamis	National University
Emeliza Yabut	National University
11:15-11:30, Submission ID 143	
<i>Effectiveness of an Automated Reading Tutor Design for Filipino Speaking Children</i>	
Ronald Pascual	De La Salle University

<b>Electrical &amp; Electronic Engineering</b>	<b>Parallel Session 5-Room1</b>
<b>DAY 2 Virtual Room 1 (Capacity: 100) 10:00am – 5:30pm</b>	
Topic: Day 2: HTC Virtual Room 1 (2/12/2020)	

Time: Dec 2, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting: <a href="https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09">https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09</a>	
Meeting link: <a href="https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09">https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09</a>	
Chair: Assoc. Prof. <b>Wahidah Mansor</b>	Universiti Teknologi MARA
14:00-14:15, Submission ID 14	
<i>Wireless EEG-based Fan Speed Control</i>	
Mohammad Syahid Sahaimi	Universiti Teknologi MARA
Wahidah Mansor	Universiti Teknologi MARA
Ahmad Zuber Ahmad Zainuddin	Universiti Kuala Lumpur British Malaysian Institute
Yoot Khuan Lee	Universiti Teknologi MARA
Abd Razak Mahmud	Universiti Teknologi MARA
14:15-14:30, Submission ID 15	
<i>Fractional-order Predictive PI Controller for Process Plants with Deadtime</i>	
Arun Mozhi Devan Panneer Selvam	University Teknologi Petronas
Fawnizu Azmadi Hussin	University Teknologi Petronas
Rosdiazli Ibrahim	University Teknologi Petronas
Kishore Bingi	Vellore Institute of Technology
Hakkim Abdulrab	University Teknologi Petronas
14:30-14:45, Submission ID 19	
<i>Simulation and Control of Inverted Pendulum System Dynamics over Control Area Network using TrueTime</i>	
Hakim Qaid Abdullah Abdulrab	University Teknologi Petronas
Fawnizu Azmadi Hussin	University Teknologi Petronas
Zakarya Motea	Universiti Teknologi Malaysia
Rose Neezar Rose Zaidi	Universiti Teknologi Malaysia
14:45-15:00, Submission ID 22	
<i>Design and Analysis of a Highly Efficient Rectangular Cavity Based Semi-Elliptic Nanoplasmonic Coupler</i>	
Md. Farhad Hassan	Islamic University of Technology
Md. Saiful Islam Sumon	Islamic University of Technology
Md. Moudud Hasan	Islamic University of Technology
Md. Arefin Rabbi Emon	Islamic University of Technology
Rakibul Hasan Sagor	Islamic University of Technology
15:00-15:15, Submission ID 51	
<i>Readout and Control Circuit with Non-Contact Temperature Sensor for Multiple ISFETs with Microcontroller using I2C Protocol</i>	
Abdul Hadi Nograles	Mapua University
Jennifer Dela Cruz	Mapua University
Wen-Yaw Chung	Chung Yuan Christian University

<b>Electrical &amp; Electronic Engineering</b>	<b>Parallel Session 5-Room2</b>
<b>DAY 2 Virtual Room 2 (Capacity: 100) 10:00am – 5:30pm</b>	
Topic: Day 2: HTC Virtual Room 2 (2/12/2020)	
Time: Dec 2, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting: <a href="https://zoom.us/meeting/register/tJUqce2gpjouH9E-LKyGa_85iNTAonTmB0Nm">https://zoom.us/meeting/register/tJUqce2gpjouH9E-LKyGa_85iNTAonTmB0Nm</a>	

Meeting link: <a href="https://zoom.us/j/91764881455?pwd=cEc4SFIYU2dOa01UY0VZcStqSm1LUT09">https://zoom.us/j/91764881455?pwd=cEc4SFIYU2dOa01UY0VZcStqSm1LUT09</a>	
Chair: <b>Dr. Hudyjaya Siswojyo</b>	Swinburne University of Technology Sarawak Campus
14:00-14:15, Submission ID 100	
<i>Development of Isometrical 3-Finger Underactuated Robot Gripper</i>	
Amirul Syafiq Sadun	University Tun Hussein Onn Malaysia
Jamaludin Jalaini	University Tun Hussein Onn Malaysia
Jumadi Abdul Sukor	University Tun Hussein Onn Malaysia
Megat Satria Zainuddin Yaacob	University Tun Hussein Onn Malaysia
Mohd Nizam Katimon	University Tun Hussein Onn Malaysia
Mohammad Afif Ayob	University Tun Hussein Onn Malaysia
Suziana Ahmad	Universiti Teknikal Malaysia Melaka
14:15-14:30, Submission ID 117	
<i>Efficiency Optimization of Supercapacitor Assisted Low Dropout (SCALDO) Regulators</i>	
Pubudu Jayasekara	University of Kelaniya
Kasun Piyumal	University of Kelaniya
Aruna Ranaweera	University of Kelaniya
Sudath Kalingamudali	University of Kelaniya
14:30-14:45, Submission ID 118	
<i>Wideband Circularly Polarized Metamaterial based Antenna Employing Metasurface Structure</i>	
Samia Tabassum	Chittagong University of Engineering and Technology
Anaynna Shil	Chittagong University of Engineering and Technology
Nusrat Jahan	Chittagong University of Engineering and Technology
14:45-15:00, Submission ID 151	
<i>Automation of Rail Gate Control with Obstacle Detection and Real Time Tracking in the Development of Bangladesh Railway</i>	
Kuraish Bin Quader Chowdhury	Independent University, Bangladesh
Moshiur Rahman Khan	Independent University, Bangladesh
Md. Abdur Razzak	Independent University, Bangladesh
15:00-15:15, Submission ID 164	
<i>Calculation of Data Rates for Varying Scenarios Using Free Space Path Loss and Okumura-Hata Model in the TVWS Frequency Band</i>	
Chamath Kalanaka Vithanawasam	Swinburne University of Technology Sarawak Campus
Yi Lung Then	Swinburne University of Technology Sarawak Campus
Hieng Tiong Su	Swinburne University of Technology Sarawak Campus

<b>Food Science &amp; Agriculture</b>	Parallel Session 6-Room1
<b>DAY 2 Virtual Room 1 (Capacity: 100) 10:00am – 5:30pm</b>	
Topic: Day 2: HTC Virtual Room 1 (2/12/2020)	
Time: Dec 2, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting: <a href="https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09">https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09</a>	
Meeting link: <a href="https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09">https://zoom.us/j/93793761943?pwd=aWdlamR1V2VxSGN4a3JpVE1UNERhQT09</a>	
Chair: Prof. Yaeko Mitsumori	Osaka University
<b>Co-Chair: Dr. Then Yi Lung</b>	Swinburne University of Technology Sarawak Campus
16:15-16:30, Submission ID 64	

<i>An Analysis of Impact of Urban Beekeeping Projects on Community: Ginza Bee Projects brought not only bees, but also a more sophisticated image to Ginza</i>	
Yaeko Mitsumori	Osaka University
16:30-16:45, Submission ID 68	
<i>Aquaphotomics Determination of Total Organic Carbon and Hydrogen Biomarkers on Aquaponic Pond Water and Concentration Prediction Using Genetic</i>	
Ronnie Concepcion II	De La Salle University
Sandy Lauguico	De La Salle University
Jonnell Alejandrino	De La Salle University
Justin De Guia	De La Salle University
Elmer Dadios	De La Salle University
Argel Bandala	De La Salle University
16:45-17:00, Submission ID 93	
<i>Lettuce Leaf Water Stress Estimation Based on Thermo-Visible Signatures Using Recurrent Neural Network Optimized by Evolutionary Strategy</i>	
Ronnie Concepcion II	De La Salle University
Sandy Lauguico	De La Salle University
Vincent Jan Almero	De La Salle University
Elmer Dadios	De La Salle University
Argel Bandala	De La Salle University
Edwin Sybingco	De La Salle University
17:00-17:15, Submission ID 109	
<i>Using Human Centered Design to Improve Socio-economic Livelihoods with Modernized Irrigation Systems</i>	
Manoj Guleria	Amrita Vishwa Vidyapeetham
Aneena John Panicker	Amrita Vishwa Vidyapeetham
Rayappa Raja S. R.	Amrita Vishwa Vidyapeetham
Rajesh T.	Amrita Vishwa Vidyapeetham
Lisa Malini Frey	Amrita Vishwa Vidyapeetham
Krishna Nandan	Amrita Vishwa Vidyapeetham
Soundharajan B.	Amrita Vishwa Vidyapeetham
17:15-17:30, Submission ID 130	
<i>Problem Assessment and Interventions for Improving Agricultural Methods and Practices among Small and Marginal Farmers in Rajasthan, India</i>	
Ashwin Krithik M.	Amrita Vishwa Vidyapeetham
Lakshmi Sri K.V.	Amrita Vishwa Vidyapeetham
Pruthvi C. H.	Amrita Vishwa Vidyapeetham
Sooraj S. Kumar	Amrita Vishwa Vidyapeetham
Vasanth Sathyanarayanan S.	Amrita Vishwa Vidyapeetham
Lisa Malini Frey	Amrita Vishwa Vidyapeetham
Renjith Mohan	Amrita Vishwa Vidyapeetham

### Smart City / Smart Village

Parallel Session 6-Room2

#### **DAY 2 Virtual Room 2 (Capacity: 100) 10:00am – 5:30pm**

Topic: Day 2: HTC Virtual Room 2 (2/12/2020)

Time: Dec 2, 2020 10:00 AM Kuala Lumpur

Register in advance for this meeting:

[https://zoom.us/meeting/register/tJUqce2gpjouH9E-LKyGa\\_85iNTAonTmB0Nm](https://zoom.us/meeting/register/tJUqce2gpjouH9E-LKyGa_85iNTAonTmB0Nm)

Meeting link: <a href="https://zoom.us/j/91764881455?pwd=cEc4SFIYU2dOa01UY0VZcStqSm1LUT09">https://zoom.us/j/91764881455?pwd=cEc4SFIYU2dOa01UY0VZcStqSm1LUT09</a>	
Chair: <b>Dr. Hadi Nabipour</b>	Swinburne University of Technology Sarawak Campus
16:15-16:30, Submission ID 40	
<i>Traffic Management Guided by the Circuit Model of Urban Traffic Networks</i>	
Quan Ying Tan	Xiamen University Malaysia
Kelvin J. A. Ooi	Xiamen University Malaysia
Burra V. D. Kumar	Xiamen University Malaysia
Mohammad A. S. Bhuiyan	Xiamen University Malaysia
Kesavan Raghavan	Universiti Kebangsaan Malaysia
Mamun B. I. Reaz	Universiti Kebangsaan Malaysia
16:30-16:45, Submission ID 110	
<i>Assessment of Waste Management Practices and its Impact on the Village Ecosystem in Himachal Pradesh, India</i>	
Saravanan Balu	Amrita Vishwa Vidyapeetham
Hari Lakshman R.B.	Amrita Vishwa Vidyapeetham
Ramprasath M.	Amrita Vishwa Vidyapeetham
Aishwarya N.K.	Amrita Vishwa Vidyapeetham
Aiswarya M.S.	Amrita Vishwa Vidyapeetham
Sampath Kumar S.	Amrita Vishwa Vidyapeetham
L.M. Frey	Amrita Vishwa Vidyapeetham
Krishna Nandan	Amrita Vishwa Vidyapeetham
16:45-17:00, Submission ID 112	
<i>Technology for Addressing Income Insufficiency in Rural India</i>	
Ganesh V.	Amrita Vishwa Vidyapeetham
Sharanya B.	Amrita Vishwa Vidyapeetham
Sri Vyshnavi U.	Amrita Vishwa Vidyapeetham
Pradeep K.R.	Amrita Vishwa Vidyapeetham
Anu G. Kumar	Amrita Vishwa Vidyapeetham
Purna Chaitanya G.	Amrita Vishwa Vidyapeetham
Chinmayi R.	Amrita Vishwa Vidyapeetham
Souresh Cornet	Amrita Vishwa Vidyapeetham

<b>Smart City / Smart Village</b>	<b>Parallel Session 6-Room3</b>
<b>DAY 2 Virtual Room 3 (Capacity: 500) 10:00am – 5:30pm</b>	
Topic: Day 2: HTC Virtual Room 3 (2/12/2020)	
Time: Dec 2, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting:	
<a href="https://zoom.us/meeting/register/tJckdOuhri8pGdIKfJQnzqe9pyURnbnU27R3">https://zoom.us/meeting/register/tJckdOuhri8pGdIKfJQnzqe9pyURnbnU27R3</a>	
Meeting link: <a href="https://zoom.us/j/93932904336?pwd=VHBheVFzbVFqN1I2NkFlc3IKdjdZZz09">https://zoom.us/j/93932904336?pwd=VHBheVFzbVFqN1I2NkFlc3IKdjdZZz09</a>	
Chair: <b>Assoc. Prof. Md Pauzi</b>	Universiti Teknologi Malaysia
16:15-16:30, Submission ID 122	
<i>Smart Traffic Systems Guided by Principles of Traffic Circuit Theorems</i>	
Kesavan Raghavan	Universiti Kebangsaan Malaysia
Kelvin Ooi	Xiamen University Malaysia
Quan Tan	Xiamen University Malaysia
Muhammad Bhuiyan	Xiamen University Malaysia

Burra Kumar Choon Yuen Mamun Reaz	Xiamen University Malaysia University of Malaya Universiti Kebangsaan Malaysia
16:30-16:45, Submission ID 128	
<i>Assessment of Agriculture Practices and Sustainability in Uttarakhand, India</i>	
Partho Sarothi Dey Mukund S. Chettiar Devanand Pasunuri Arunajaya C. K. Sowmya Chervu Lisa Malini Frey Souresh Cornet	Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham
16:45-17:00, Submission ID 129	
<i>Women Empowerment Through Productivity, Rural Development and Technology: Assessment of Cross Linkages within a Village of Maharashtra, India</i>	
Sai Kalyan K.G.V.N. Amal Rajeevan Kiran Kumar Barnala Ajay R. Aravind M. Nair Lisa Malini Frey Renjith Mohan	Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham Amrita Vishwa Vidyapeetham
17:00-17:15, Submission ID 154	
<i>Developing Smart COVID-19 Social Distancing Surveillance Drone using YOLO</i>	
Pray Somaldo Faizal Adila Ferdiansyah Grafika Jati Wisnu Jatmiko	Universitas Indonesia Universitas Indonesia Universitas Indonesia Universitas Indonesia

### Technical Program for Thurs December 3, 2020

<b>08:30-09:30</b> <b>Energy Sustainable Fog Information System for Infrastructure-less Environments by Dr. Jiong Jin</b>	Keynote Session 3
<b>09:30-10:00</b> <b>Educational Activities and Digital Technology for Humanity and Life-Long Learning - by Professor Lance Fung</b>	
Chair: Ir. Dr. David Bong Boon Lian	Universiti Malaysia Sarawak
<b>DAY 3 Central Room (Capacity: 500) 8:00am – 10:00am</b>	
Topic: Day 3: HTC Conference Central Room (3/12/2020) Time: Dec 3, 2020 08:00 AM Kuala Lumpur Register in advance for this meeting: <a href="https://zoom.us/meeting/register/tJUqc-yqrz4uHtwhuzNmxUv55at07vWLWMy1">https://zoom.us/meeting/register/tJUqc-yqrz4uHtwhuzNmxUv55at07vWLWMy1</a> Meeting ID: 917 4521 5448 Passcode: <b>654321</b>	

Meeting link: <https://zoom.us/j/91745215448?pwd=ZFpoZjJHa1Jmb24ybU5YVVFyR2R4UT09>

**Special Session: Integrating Humanity into Industry 4.0**

Parallel Session 7-Room1

**DAY 3 Virtual Room 1 (Capacity: 500) 10:00am – 5:30pm**

Topic: Day 3: HTC Virtual Room 1 (3/12/2020)

Time: Dec 3, 2020 10:00 AM Kuala Lumpur

Register in advance for this meeting:

<https://zoom.us/j/93673043189?pwd=VHZJbUZIMmF3Vk5mUnB3VTY2eSt2dz09>

Meeting link: <https://zoom.us/j/93673043189?pwd=VHZJbUZIMmF3Vk5mUnB3VTY2eSt2dz09>

Chair: **Dr. Haroon Rashid**

**Universiti Kebangsaan Malaysia**

10:30-10:45, Submission ID 30

*High Performance Computing (HPC) Applications in Industry 4.0 (I4.0) for the Betterment of Humanity*

Min Hoe

Wawasan Open University

Jamal Dargham

Universiti Malaysia Sabah

10:45-11:00, Submission ID 103

*Internet Based Heart Rate Monitoring System for IR 4.0 Healthcare Technologies*

Muhammad Shafiq Ismail

Universiti Kuala Lumpur

Mohd Sallehin Mohd Kassim

Universiti Kuala Lumpur

Aznida Abu Bakar Sajak

Universiti Kuala Lumpur

Shahrinaz Ismail

Universiti Kuala Lumpur

11:00-11:15, Submission ID 156

*Thermal Imaging for Smart Agriculture Irrigation System to support IR 4.0 Initiative*

Muhammad Farhan Aizat Zainal Azman

Universiti Kuala Lumpur

Aznida Abu Bakar Sajak

Universiti Kuala Lumpur

Ruwaida Ramly

Universiti Kuala Lumpur

Juliana Jaafar

Universiti Kuala Lumpur

11:15-11:30, Submission ID 158

*Factors Influencing Pre-University Students' Interests towards STEM Programs and Careers*

Sing Ling Ong

University College of Technology Sarawak

Jill Pei Wah Ling

University College of Technology Sarawak

11:30-11:45, Submission ID 172

*Optimizing Learning in Associative Networks and Gamification: Lessons Learnt and Implications*

Chien-Sing Lee

Sunway University

11:45-12:00, Submission ID 173

*Arsenate Removal Performance of Magnetite Nanoparticles*

Nisha Kumari Devaraj

Multimedia University

Mukter-Uz-Zaman A.S.M.

Multimedia University

Hin Yong Wong

Multimedia University

**Special Session: Social Innovation and Creativity during COVID-19**

Parallel Session 7-Room2

**DAY 3 Virtual Room 3 (Capacity: 500) 10:00am – 5:30pm**

Topic: Day 3: HTC Virtual Room 2 (3/12/2020)

Time: Dec 3, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting: <a href="https://zoom.us/meeting/register/tJApceCrgzkrGta_qMq_DZ6WhVHJgLG-WmSA">https://zoom.us/meeting/register/tJApceCrgzkrGta_qMq_DZ6WhVHJgLG-WmSA</a>	
Meeting link: <a href="https://zoom.us/j/94469352102?pwd=SjhJTlh2eDRkNzkwck9kL1k3TVluUT09">https://zoom.us/j/94469352102?pwd=SjhJTlh2eDRkNzkwck9kL1k3TVluUT09</a>	
Chair: <b>Dr. Jacey Lynn Minoi</b>	Universiti Malaysia Sarawak
10:30-10:45, Submission ID 98	
<i>Rebuilding Health Tourism Destination Image After COVID-19: The Case of Malaysia and Indonesia</i>	
Aziean Jamin	Universiti Teknologi MARA Melaka
Fitri Rahmafritria ITRI RAHMAFITRIA	Universitas Pendidikan Indonesia
Ghoitsa Rohmah Nurazizah	Universitas Pendidikan Indonesia
10:45-11:00, Submission ID 157	
<i>Immigration Rhetoric and Policies During Global Health Crises: Well-being and Health Concerns for the Global Migrant Communities</i>	
Muhammad Hassan Bin Afzal	Kent State University
11:00-11:15, Submission ID 160	
<i>Innovative Use of TPOA Telecentres for Covid-19 Awareness among the Orang Asli Communities</i>	
Chong Eng Tan	Universiti Malaysia Sarawak
Sei Ping Lau	Universiti Malaysia Sarawak
Siew Mooi Wong	Universiti Malaysia Sarawak
Poline Bala	Universiti Malaysia Sarawak
11:15-11:30, Submission ID 165	
<i>TRIZ for Shaping Life-Long Learning</i>	
Amit Pariyar	The Kyoto College of Graduate Studies for Informatics
Narayanan Kulathuramaiyer	Universiti Malaysia Sarawak
Poline Bala	Universiti Malaysia Sarawak
Chuah Kee Man	Universiti Malaysia Sarawak
11:30-11:45, Submission ID 168	
<i>Nudge Theory and Social Innovation: An Analysis of Citizen and Government Initiatives during COVID-19 Outbreak in Malaysia</i>	
Jacey-Lynn Minoi	Universiti Malaysia Sarawak
Fitri Suraya Mohamad	Universiti Malaysia Sarawak
Sylvester Arnab	Coventry University
11:45-12:00, Submission ID 169	
<i>Learning Programming using Lego Mindstorm: Analysis of Learner Experiences</i>	
Tengku Farah Hanum Nor Tengku Mohd Noor	Universiti Malaysia Sarawak
Fitri Suraya Mohamad	Universiti Malaysia Sarawak
Jacey-Lynn Minoi	Universiti Malaysia Sarawak

**Special Session: Technology for Ageing Population**

Parallel Session 7-Room3

**DAY 3 Virtual Room 3 (Capacity: 500) 10:00am – 5:30pm**

Topic: Day 3: HTC Virtual Room 3 (3/12/2020)

Time: Dec 3, 2020 10:00 AM Kuala Lumpur

Register in advance for this meeting:

<https://zoom.us/meeting/register/tJYlCuGgqjSpGtzAK2uh61i6df6ReWOAZXTW>

Meeting link: <https://zoom.us/j/92858840308?pwd=NHRmeTd1QWFqMS9zQk9TdEE1MVIJQT09>

Chair: <b>Dr. Siti Anom Ahmad</b>		<b>Universiti Putra Malaysia</b>
10:30-10:45, Submission ID 85		
<i>Feature Selection Based Twin-Support Vector Machine for the diagnosis of Parkinson's Disease</i>		
Surendrabikram Thapa	Delhi Technological University	
Surabhi Adhikari	Delhi Technological University	
Awishkar Ghimire	Delhi Technological University	
Anshuman Aditya	Delhi Technological University	
10:45-11:00, Submission ID 135		
<i>Challenges and Possibilities for Sustainable Income Generation through Efficient use of Available Resources in a Village in Odisha, India</i>		
B. Akhila Manogna	Amrita Vishwa Vidyapeetham	
N. Purushotham Raju	Amrita Vishwa Vidyapeetham	
Anubhav Kumar	Amrita Vishwa Vidyapeetham	
Siridhatri K.	Amrita Vishwa Vidyapeetham	
Prabhudev B.M.	Amrita Vishwa Vidyapeetham	
Kavitha C.R.	Amrita Vishwa Vidyapeetham	
Lisa Malini Frey	Amrita Vishwa Vidyapeetham	
Renjith Mohan	Amrita Vishwa Vidyapeetham	
11:00-11:15, Submission ID 132		
<i>Agricultural Problems and Technology-Based Sustainable Solutions for an Impoverished Village of Bihar, India</i>		
Anirudha Vachaspati Vempati	Amrita Vishwa Vidyapeetham	
Saieshwar Radhakrishnan	Amrita Vishwa Vidyapeetham	
Aswath G.I.	Amrita Vishwa Vidyapeetham	
Raaksheshsubhash Arumuga Rajan	Amrita Vishwa Vidyapeetham	
Nikhil K. Kothurkar	Amrita Vishwa Vidyapeetham	
Lisa Malini Frey	Amrita Vishwa Vidyapeetham	
Krishna Nandan	Amrita Vishwa Vidyapeetham	

<b>Closing ceremony 12pm</b>	<b>Central room</b>
<b>DAY 3 Central Room (Capacity: 500) 10:00am – 5:30pm</b>	
Topic: Day 3: HTC Virtual Room 3 (3/12/2020)	
Time: Dec 3, 2020 10:00 AM Kuala Lumpur	
Register in advance for this meeting:	
<a href="https://zoom.us/meeting/register/tJYlcuGgqjspGtzAK2uh61i6df6ReWOAZXTW">https://zoom.us/meeting/register/tJYlcuGgqjspGtzAK2uh61i6df6ReWOAZXTW</a>	
Meeting link: <a href="https://zoom.us/j/92858840308?pwd=NHRmeTd1QWFqMS9zQk9TdEE1MVJIQT09">https://zoom.us/j/92858840308?pwd=NHRmeTd1QWFqMS9zQk9TdEE1MVJIQT09</a>	