

Seq	Session Code	Name Session	Day	Room	Time	#	Title	Authors with affiliation and country
1	A-SES1-ROOMA-1	Non-Invasive Technologies	Day 2 - Wednesday	ROOM A	13.00-13.20	1570582669	Non-Invasive Blood Glucose Measurement Using near Infra-Red Spectroscopy	Anika Tabassum Priyoti, Salman Jubair Jim, Sushmit Hossain, Shafkat Mahmud, Sujana Salvin and Arnab Bhattacharjee (Bangladesh University of Engineering and Technology)
2	A-SES1-ROOMA-2		Day 2 - Wednesday	ROOM A	13.20-13.40	1570581674	Non-Invasive Blood Glucose Monitoring Using Near-Infrared Spectroscopy Based on Internet of Things	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
3	A-SES1-ROOMA-3		Day 2 - Wednesday	ROOM A	13.40-14.00	1570588132	Design of Respiratory Rate Measurement Based on	Ismoyo Danurwindo and Basari Basari (Universitas Indonesia, Indonesia)
4	A-SES1-ROOMB-1	Telecommunication Technologies	Day 2 - Wednesday	ROOM B	13.00-13.20	1570582000	Multiband Wideband Monopole Antena Using RSRR for WLAN and	Rosza Madina, Eko Tjipto Rahardjo and Fitri Yuli Zulkifli (Universitas Indonesia, Indonesia)
5	A-SES1-ROOMB-2		Day 2 - Wednesday	ROOM B	13.20-13.40	1570568080	Techno-Economic Analysis of M2M Access Media to Support Data Communication Network	Sigit Suryatama (University of Indonesia, Indonesia); Fitri Yuli Zulkifli (Universitas Indonesia, Indonesia)
6	A-SES1-ROOMB-3		Day 2 - Wednesday	ROOM B	13.40-14.00	1570571411	Community Cellular Networks in the Philippines: Challenges and Opportunities Towards Sustainability	Mary Claire Barela (University of the Philippines, Philippines); Philip A. Martinez (University of the Philippines & Electrical and Electronics Engineering Institute, Philippines); Maria Theresa Cunanan (University of the Philippines - Diliman, Philippines); Ronel Vincent P. Vistal (University of the Philippines, Electrical and Electronics Engineering Institute, Philippines); Cedric Angelo Estina (Networks
7	A-SES1-ROOMC-1	Circuits, Systems, and Signal Processing	Day 2 - Wednesday	ROOM C	13.00-13.20	1570582438	Eye Gaze Controlled Immersive Video Navigation System for Disabled People	Dipayan Saha, A. Q. M. Sazzad Sayyed and A. f. m. Saif (Bangladesh University of Engineering and Technology, Bangladesh); Celia Shahnaz and Shaikh Anowarul Fattah (BUET, Bangladesh)
8	A-SES1-ROOMC-2		Day 2 - Wednesday	ROOM C	13.20-13.40	1570561753	IoT Based Smart Water Quality Data Logging Sensor System	Dipankar Pal (BITS-Pilani, K. K. Birla Goa-Campus, INDIA & Senior Member IEEE, India); Yash Pandit (BITS-Pilani, K. K. Birla Goa-Campus, INDIA, India); Nitish Kulshrestha (BITS-Pilani, K.
9	A-SES1-ROOMC-3		Day 2 - Wednesday	ROOM C	13.40-14.00	1570581549	Deep Lip Reading - A Deep Learning Based Lip Reading Software for the Hearing Impaired	Mohammad Muntasir Hassan, A. N. M. Nafiul Islam and Mohammed Abid Abrar (Bangladesh University of Engineering and Technology, Bangladesh); Shaikh Anowarul Fattah and Celia Shahnaz (BUET, Bangladesh); Mohammad Tariqul Islam (Bangladesh University of

10	A-SES2-ROOMA-1	Biosignal & Bioimage Analysis	Day 2 - Wednesday	ROOM A	14.00-14.20	1570588341	Dementia MRI Classification Using Hybrid Dragonfly Based	Bharanidharan N and Harikumar R (Bannari Amman Institute of Technology, India)
11	A-SES2-ROOMA-2		Day 2 - Wednesday	ROOM A	14.20-14.40	1570589575	Real Time EEG-based Stress Detection and Meditation	Prima Dewi Purnamasari (Universitas Indonesia, Indonesia)
12	A-SES2-ROOMA-3		Day 2 - Wednesday	ROOM A	14.40-15.00	1570580427	End to End Solution for Continuous Monitoring and Real-Time Analysis of Vital Signs from	Md. Hassanuzzaman Hassan, Purnendu Biswas and Tanzilur Rahman (North South University, Bangladesh)
13	A-SES2-ROOMB-1	Networking Technologies	Day 2 - Wednesday	ROOM B	14.00-14.20	1570590114	New Scheduling Algorithm Model for Intelligent Resources Allocation Management in NGN	Fajar Rahayu (Universitas Indonesia, Indonesia); Muhamad Asvial (Universitas Indonesia, Indonesia); Fitri Yuli Zulkifli (Universitas
14	A-SES2-ROOMB-2		Day 2 - Wednesday	ROOM B	14.20-14.40	1570588131	Enhancing Packet Delivery Rate in Flying Ad-Hoc Network (FANET) Routing	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
15	A-SES2-ROOMB-3		Day 2 - Wednesday	ROOM B	14.40-15.00	1570591914	Full-duplex of Optical Relaying Network in FSO Communications to Provide Broadband Internet	Ucuk Darusalam (Universitas Nasional, Indonesia); Fitri Yuli Zulkifli, Purnomo Priambodo and Eko Tjipto Rahardjo (Universitas
16	A-SES2-ROOMC-1	Sustainability and Environment	Day 2 - Wednesday	ROOM C	14.00-14.20	1570590446	Demand Response in a Residential Building Using Multi Agent Control System	M A Kalhan Sandaru Boralessa (Univetrstity of Moratuwa, Sri Lanka); Vimukkthi Privadarshana, KTM Udavanga Hemapala and
17	A-SES2-ROOMC-2		Day 2 - Wednesday	ROOM C	14.20-14.40	1570590290	Protection Settings Optimization with Different Objective Function Formulations	Thiramuni Sisitha Sameera Senarathna (University of Moratuwa, Sri Lanka); M A Kalhan Sandaru Boralessa (Univetrstity of Moratuwa, Sri Lanka); KTM Udavanga Hemapala (University of
18	A-SES2-ROOMC-3		Day 2 - Wednesday	ROOM C	14.40-15.00	1570588278	Penta-band Frequency Microstrip Antenna for Disaster	Aisya Nur Aulia Yusuf, Fitri Yuli Zulkifli and Eko Tjipto Rahardjo (Universitas Indonesia,
19	A-SES3-ROOMA-1	Health Care Technologies	Day 2 - Wednesday	ROOM A	14.00-14.20	1570568197	Low-Cost Continuous-Wave Radar System Design for	Alvin Senjaya and Fitri Yuli Zulkifli (Universitas Indonesia, Indonesia)
20	A-SES3-ROOMA-2		Day 2 - Wednesday	ROOM A	15.50-16.10	1570580798	Finger Movement Recognition Based on Muscle Synergy Using Electromyogram	Nayan M. Kakoty and Prastuti Shivam (Tezpur University, India); Malarvili Balakrishnan (Universiti Teknologi Malaysia, Malaysia); Prihartini Widiwanti (Faculty of Science and
21	A-SES3-ROOMA-3		Day 2 - Wednesday	ROOM A	16.10-16.30	1570582739	Eye Blink Controlled Low Cost Smart Wheel Chair Aiding Disabled People	Shaikh Anowarul Fattah and Celia Shahnaz (BUET, Bangladesh); Md Ashiqur Rahman Apu and Imran Fahad (Bangladesh University of Engineering and Technology, Bangladesh)
22	A-SES3-ROOMB-1	Network Infrastructure Technologies	Day 2 - Wednesday	ROOM B	15.30-15.50	1570564787	Leveraging SDN and NFV for Provisioning Quality Network Infrastructure for Filipino Public Schools	Jacob Miguel D. Pineda (University of the Philippines Diliman, Philippines); Wilson Tan (University of the Philippines, Philippines); Julian Troy C Valdez (University of the

23	A-SES3-ROOMB-2		Day 2 - Wednesday	ROOM B	15.50-16.10	1570591258	Comprehensive Digital Instrument Cluster for Vehicle	Abdul Muis and Ahmad Dhiyaaul Auliya (Universitas Indonesia, Indonesia)
24	A-SES3-ROOMB-3		Day 2 - Wednesday	ROOM B	16.10-16.30	1570571337	Single Mode Porous Core Photonic Crystal Fiber for THz Wave Propagation with Extremely Low Losses	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)
25	A-SES3-ROOMC-1	Robotics & Automation Systems	Day 2 - Wednesday	ROOM C	15.30-15.50	1570590288	Low Cost Smart Home Automation System Using Smart	Ravi Kishore Kodali and Sasweth C Rajanarayanan (National Institute of
26	A-SES3-ROOMC-2		Day 2 - Wednesday	ROOM C	15.50-16.10	1570590133	Evaluation of the ROOT Robot System and Curriculum to Improve Computational Thinking	Yanting Liu (Guangdong University of Technology, P.R. China); Juan Rojas (Guangdong University of Technology & GDUT, P.R. China)
27	A-SES3-ROOMC-3		Day 2 - Wednesday	ROOM C	16.10-16.30	1570561489	A Vision Based Smart Multihead Weighing Machine for	Radhamadhab Dalai (BIT mesra, India); Kishore Kumar Senapati (BIT Mesra, India)
28	B-SES1-ROOMA-1	Power & Energy Systems	Day 3 - Thursday	ROOM A	13.00-13.20	1570571344	Global Grid - Role of HVDC Interconnectors in the Future	Alexandre Oudalov (ABB Power Grids Switzerland Ltd., Switzerland)
29	B-SES1-ROOMA-2		Day 3 - Thursday	ROOM A	13.20-13.40	1570588571	Developing a Three Phase Z Source Inverter Model and Simulating the Bidirectional	M A Kalhan Sandaru Boralessa (Univetrsty of Moratuwa, Sri Lanka)
30	B-SES1-ROOMA-3		Day 3 - Thursday	ROOM A	13.40-14.00	1570571278	Analysis of IPMSM Characteristics in Conversion of Six to Three-Phase for Fault Tolerant Operation	Hojin Jeong (Korea University of Technology and Education, Korea); Sangshin Kwak (Chung-ang University, Korea); Namhun Kim (Erae Automotive, Korea); Jeihoon Baek (Korea University of Technology and Education, Korea)
31	B-SES1-ROOMB-1	Empowerment and Sustainability	Day 3 - Thursday	ROOM B	13.00-13.20	1570588163	Case Study on Co-design Methodology for Improved Cook Stove Solutions for Rural Community in India	Krishna Nandan (Amrita Centre for International Program, Amrita Vishwa Vidyapeetham); Renjith Mohan (Amrita Vishwa Vidyapeetham, India); Harish Mohan (Ammachi Labs, Amrita Vishwa Vidyapeetham, Amritapuri, India); Olamide Sadipe (The University of Manchester, United Kingdom (Great Britain)); Lena Williams (The University of Manchester)
32	B-SES1-ROOMB-2		Day 3 - Thursday	ROOM B	13.20-13.40	1570571419	Analysis and Design of Patriot Pangan: Towards E-Participation to Reduce Stunting Rates in Indonesia	Arga Putra Panatagama (Bogor Agricultural University, Indonesia); Yani Nurhadyani (Institut Pertanian Bogor, Indonesia); Auzi Asfarian (Bogor Agricultural University)
33	B-SES1-ROOMB-3		Day 3 - Thursday	ROOM B	13.40-14.00	1570571088	Marriage or Childbearing Determinants of Women's Employment Exit in Indonesia	Diahhadi Setyonaluri (Lembaga Demografi FEB Universitas Indonesia, Indonesia); Yukari Shiota (Gakushuin University, Japan)

34	B-SES1-ROOMC-1	Water Management Systems	Day 3 - Thursday	ROOM C	13.00-13.20	1570590275	IoT Monitoring Setup for Waste Water Treatment	Ravi Kishore Kodali and Sasweth C Rajanarayanan (National Institute of
35	B-SES1-ROOMC-2		Day 3 - Thursday	ROOM C	13.20-13.40	1570582294	Remote Sensing Kit for Contamination Event Detection in	Md. Siam, Jahidul Islam Munna, Mahamud Hasan and Tanzilur Rahman (North South
36	B-SES1-ROOMC-3		Day 3 - Thursday	ROOM C	13.40-14.00	1570590121	Water Management Through Integrated Technologies, a Sustainable Approach for Village Pandori, India	Krishna Nandan (Amrita Centre for International Program, Amrita Vishwa Vidyapeetham, India); Renjith Mohan, Hemasagar Kadiveti, Sahithi Eleshwaram, Arinrasath S. Siddharth B and Diya Sharma S G
37	B-SES2-ROOMA-1	Healthcare & Science	Day 3 - Thursday	ROOM A	15.30-15.50	1570577402	IoT Enabled Navigation System for Blind	Sunitha Beevi K (TKM College of Engineering, Kollam, India); Nirmal A Kumar and Yazin H Thangal (TKM College of Engineering, India)
38	B-SES2-ROOMA-2		Day 3 - Thursday	ROOM A	14.20-14.40	1570582859	Evaluation of Navigation Commands Based on Conceptual Attributes to Enhance Human-Robot Interaction	H. M. Ravindu Tharaka Bandara (University Of Moratuwa, Sri Lanka); Sahan Priyanayana, Chapa Sirithunge Hewa Pelendage, Buddhika Prabhath Jayasekara, Chandima Dedduwa Pathirana and Ranathunga Arachchilage Ruwan
39	B-SES2-ROOMA-3		Day 3 - Thursday	ROOM A	14.40-15.00	1570583090	Exploring Feature Selection of EEG Signal Time Frequency Domain Feature for k-NN and	Theresia Diah Kusumaningrum, Akhmad Faqih and Benyamin Kusumoputro (Universitas Indonesia, Indonesia)
40	B-SES2-ROOMB-1	IoT & Communication Technologies	Day 3 - Thursday	ROOM B	14.00-14.20	1570581535	Analysis of Super-Position of	Ajib S. Arifin (Universitas Indonesia, Indonesia);
41	B-SES2-ROOMB-2		Day 3 - Thursday	ROOM B	14.20-14.40	1570588203	Study of LoRa Characteristics Using NS-3 Simulator for IoT	Eka Kurnia Sari and Ayubi Wirara (University of Indonesia, Indonesia)
42	B-SES2-ROOMB-3		Day 3 - Thursday	ROOM B	14.40-15.00	1570596531	Evaluating Steady-state Performance in Narrowband Internet of Things (NB-IoT)	Ruki Harwahu (Universitas Indonesia & Universitas Indonesia, Indonesia); Hamonangan K Prabu (University of Indonesia, Indonesia); Risma Lukitowati (Universitas Indonesia, Indonesia); Riri Fitri Sari and Hadisurya Chandra
43	B-SES2-ROOMC-1	Disaster Management	Day 3 - Thursday	ROOM C	14.00-14.20	1570588468	Towards Prediction of Landslide Susceptibility Using Random Forest for Kalutara District, Sri Lanka	Lasini Liyanage, Oshani Weerakoon and Sachini Palliyaguru (University of Colombo School of Computing, Sri Lanka); Prasad Wimalaratne (University of Colombo, Sri Lanka)
44	B-SES2-ROOMC-2		Day 3 - Thursday	ROOM C	14.20-14.40	1570580869	A Comparative Analysis of Machine Learning Techniques for Disaster-Related Tweet	Abhinav Kumar (NIT PATNA, India); Jyoti Prakash Singh (National Institute of Technology Patna, India); Sunil Saumya (IIIT Dharwad, India)
45	B-SES2-ROOMC-3		Day 3 - Thursday	ROOM C	14.40-15.00	1570582347	Optimal Microgrid Formation to Improve the Resilience of Power System Withstanding the Storm	Victor Widiputra, Seongmun Oh and Jaesung Jung (Ajou University, Korea)

46	B-SES3-ROOMA-1	Renewable Energy Education and Awareness	Day 3 - Thursday	ROOM A	15.30-15.50	1570588268	Sharing Light and Knowledge to Underdeveloped Village with Portable House Lighting System	S. Sujono and Akhmad Musafa (Universitas Budi Luhur, Indonesia); Nazori Agani (Budi Luhur University, Indonesia); Peby Purnawan, Eka Purwa Laksana and Rummi Sirait (Universitas Budi Luhur, Indonesia); Suwasti Broto (Budi Luhur University, Indonesia); Nifty Fath, Dolly Virgiano, Shaka Yudha Sakti and Indra Rivanto
47	B-SES3-ROOMA-2		Day 3 - Thursday	ROOM A	15.50-16.10	1570580483	Design and Applications of Solar Lantern Using Off-the-shelf Components for Humanitarian	Henri Uranus, Josavan Ezekhiel, Budi Khusnandar, Andrew Dwijanto, Dwi Yulian and Rianto Mangunsong (Universitas Pelita
48	B-SES3-ROOMA-3		Day 3 - Thursday	ROOM A	16.10-16.30	1570601628	Development of Gameplay Design for Renewable Energy Learning	Muhammad Salehuddin and Marcel Bonar Kristanda (Universitas Multimedia Nusantara,
49	B-SES3-ROOMB-1	Food, Agriculture & Environment	Day 3 - Thursday	ROOM B	15.30-15.50	1570588110	Banana Ripeness Analysis Using Reflectance and Photoluminescence	Ismira Lewa (Research Center for Physics, Indonesian Institute of Science); Isnaeni Isnaeni (Research Center for Physics, Indonesian
50	B-SES3-ROOMB-2		Day 3 - Thursday	ROOM B	15.50-16.10	1570588292	Microplastics and Mercury Detection on Anchovy from Alor	Endar Ningrum and Mufti Petala Patria (Universitas Indonesia, Indonesia)
51	B-SES3-ROOMB-3		Day 3 - Thursday	ROOM B	16.10-16.30	1570590280	IoT Based Vehicular Air Quality Monitoring System	Ravi Kishore Kodali and Sasweth C Rajanarayanan (National Institute of
52	B-SES3-ROOMC-1	Blockchain & Information Technologies	Day 3 - Thursday	ROOM C	15.30-15.50	1570589625	The Fuzzy Emotion Recognition Framework Using Semantic-	Dewi Yanti Liliana (State Polytechnic of Jakarta, Indonesia); Chan Basaruddin (Universitas
53	B-SES3-ROOMC-2		Day 3 - Thursday	ROOM C	15.50-16.10	1570588487	On Developing the Model of Blockchain Technology for	Rachmat Herdyono Saputra and Muhammad Suryanegara (Universitas Indonesia, Indonesia)
54	B-SES3-ROOMC-3		Day 3 - Thursday	ROOM C	16.10-16.30	1570588288	A Review of Lightweight Blockchain Technology	Delphi Hanggoro and Riri Fitri Sari (University of Indonesia, Indonesia)