

Technical Program

2018 International Electronics Symposium on Engineering Technology and Applications (IES-ETA)

Date: October 29-30th, 2018

Venue : The Patra Bali Resort & Villas, Kuta, Bali Island, Indonesia

Time	Monday, October 29 th , 2018			
08.30-09.00	Opening Ceremony (IES General Chairman: Dr. Tri Budi Santoso, IEEE Indonesia Section: Dr. Karlisa Priandana, PENS Director: Dr. Zainal Arief)			
09.00-10.30	Keynote Speech I (Prof. Naoyuki Kubota) and Keynote Speech II (Prof. Hazlie Bin Mokhlis); Moderator: Dr. Indra Adji Soelistijono			
10.30-11.00	Coffee Break			
11:00-12:30	Parallel Session I			
	Room 1 - Topic A1 (IES-ETA): Oral Presentation (5 Papers)	Room 2 - Topic B1 (IES-ETA): Oral Presentation (5 Papers)	Room 3 - Topic C1 (IES-ETA): Oral Presentation (5 Papers)	Room 4 - Topic D1 (IES-ETA): Oral Presentation (5 Papers)
12.30-14.00	Lunch Break			
14:00-15:30	Workshop Session I (Wireless Sensor Network - WSN); Room: The Denpasar Ball Room; Panelist: Prof. Jiwa Abdullah, Dr. Prima Kristalina; Moderator: Dr. M. Udin Harun Al Rasyid		Workshop Session I (AAIL) - Theme: Environmental AI Model and Computing for Disaster Resilient Society; Moderator : Dr. Shiori Sasaki; Panelist: Prof. Yasushi Kiyoki (Keio Univ), Dr. Tri Harsono (PENS), Dr. Ali Ridho Barakbah (PENS), Dr. Asako Uraki (Keio Univ; Univ of Hawaii at Manoa), Dr. Wahyu Sesulihatien (PENS)	
15:30-16:00	Coffee Break			
16:00-17:30	Parallel Session II			
	Room 1 - Topic A2 (IES-ETA): Oral Presentation (5 Papers)	Room 2 - Topic B2 (IES-ETA): Oral Presentation (5 Papers)	Room 3 - Topic C2 (IES-ETA): Oral Presentation (5 Papers)	Room 4 - Topic D2 (IES-ETA): Oral Presentation (5 Papers)
17:30-19:00	Break			
19:00-21:00	Welcome Dinner			
Time	Tuesday, October 30 th , 2018			
09.00-10.00	Keynote Speech III (Prof. Yasushi Kiyoki); Moderator: Dr. Anang Tjahjono			
10.00-10.30	Coffee Break			
10.30-12.00	Parallel Session III			
12.00-13.30	Room 1 - Topic A3 (IES-ETA): Oral Presentation (5 Papers)		Room 2 - Topic B3 (IES-ETA): Oral Presentation (6 Papers)	
	Lunch Break			
13.30-15.00	Workshop Session II (Asia Artificial Intelligence Institute - AAIL) - Theme: Smart Environment with Interactive Multimedia System and Application; Moderator: Dr. Amang Sudarsono; Panelist: Dr. Takafumi Nakanishi (Musashino Univ), Dr. Achmad Basuki (PENS), Dr. Yasuhiro Hayashi (Musashino Univ), Dr. Dhoto Sritrusta (PENS), Mr. Takashi Kumagai (Musashino Univ) Room: The Denpasar Ball Room			
15.00-15.30	Coffee Break			
15.30-16.30	Closing Ceremony			

Session : Parallel Session 01
Location : Room 1 - The Denpasar Ball Room
Moderator : Dr. Novie Ayub Windarko
Date : Monday, October 29th, 2018
Track : Power Engineering and Energy Technology
Topic : A1

Time	ID Paper	Title	Author(s)
11.00-11.15	1570476598	Improving the Performance of MPPT Coupled Inductor SEPIC Converter using Flower Pollination Algorithm (FPA) Under Partial Shading Condition	Alfis Syah Laili Hermawan and Farid Dwi Murdianto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Ainur Rofiq Nansur (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
11.15-11.30	1570476836	Performance Evaluation of MPPT using Modified PSO Algorithm for Battery Charge Application	Moh. Zaenal Efendi (Politeknik Elektronika Negeri Surabaya, Indonesia); Farid Dwi Murdianto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Novie Ayub Windarko, Rangga Eka Setiawan, Rauf Hanrif Mubarak and Mohammad Agung Dirmawan (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.30-11.45	1570477252	SCADA-based Automation System for Steam Turbine Protection and Supervision	Oskar Natan (Politeknik Elektronika Negeri Surabaya, Indonesia); Agus Indra Gunawan (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Bambang Sumantri (Politeknik Elektronika Negeri Surabaya, Indonesia); Chandra Wiryono and Arif Hendrawan (PT. Wahyu Daya Mandiri, Indonesia)
11.45-12.00	1570477392	Design and Simulation Maximum Power Point Tracking Based Adaptive Neuro Fuzzy Inference System On Photovoltaic with Cuk Converter Connected Grid	Abil Huda and Patria Julianto (Universitas Borneo Tarakan, Indonesia)
12.00-12.15	1570477535	Constant Voltage Control Using Fuzzy Logic Controller (FLC) to Overcome The Unstable Output Voltage of MPPT in DC Microgrid System	Alfis Syah Laili Hermawan (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Ainur Rofiq Nansur (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Farid Dwi Murdianto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia)

Session : Parallel Session 01
Location : Room 2 - The Denpasar Ball Room
Moderator : Dr. Agus Indra Gunawan
Date : Monday, October 29th, 2018
Track : Electronics Systems and Electrics Technology
Topic : B1

Time	ID Paper	Title	Author(s)
11.00-11.15	1570489118	Real Time Series DC Arc Fault Detection Based on Fast Fourier Transform	Dimas Okky Anggriawan, Muhammad Syafi'i, Eka Prasetyono, Anang Tjahjono and Muhammad Khafidli (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.15-11.30	1570489119	Implementation AC series Arc Fault recognition using microcontroller Based on Fast Fourier Transform	Dimas Okky Anggriawan, Muhammad Khafidli, Eka Prasetyono, Anang Tjahjono and Muhammad Syafi'i (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.30-11.45	1570477766	Fuzzy Logic-based Control System for Dissolved Oxygen Control on Indoor Shrimp Cultivation	Dikdo Yuswanto, Oskar Natan and Achmad Novi Angga (Politeknik Elektronika Negeri Surabaya, Indonesia); Agus Indra Gunawan (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Taufiqurrahman Taufiqurrahman and Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Muhammad Andi Kurniawan (Lumbung Nusantara, Indonesia)
11.45-12.00	1570481969	Balance Control on the Development of Electric Wheelchair Prototype with Standing and Stair Climbing Ability with Tracked-Wheel Mechanism	M Fahmi Ilma Suryanto and Nur Badriawan (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Endah Suryawati Ningrum (Politeknik Elektronika Negeri Surabaya, Indonesia); Eko Henfri Binugroho (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Novian Fajar Satria (Politeknik Elektronika Negeri Surabaya, Indonesia)
12.00-12.15	1570483311	Temperature Control of Canting with Electric Heating for Batik Making	Yuke Vahira Agatha, Fernaldy Aditya, Agung Shamsuddin Saragih, Radon Dhelika and Dinda C. Aulia (Universitas Indonesia, Indonesia)

Session : Parallel Session 01
Location : Room 3 - The Denpasar Ball Room
Moderator : Dr. Amang Sudarsono
Date : Monday, October 29th, 2018
Track : Telecommunication Engineering Technology
Topic : C1

Time	ID Paper	Title	Author(s)
11.00-11.15	1570481710	Performance Evaluation of Non-uniform Modulation of OFDM Subcarrier in the Underwater Acoustic Environment	Sholihah Wulandari (Politeknik Elektronika Negeri Surabaya, Indonesia); Tri Budi Santoso (Electronic Engineering Polytechnic of Surabaya (EEPIS) & Institut Teknologi Sepuluh Nopember (ITS), Indonesia); I Gede Puja Astawa (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.15-11.30	1570481731	Secure Data Sharing Scheme using Identity-based Encryption for e-Health Record	Dian Neipa Purnamasari, Amang Sudarsono and Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
11.30-11.45	1570481751	Performance of OFDM Communication System with RSA Algorithm as Synchronization on SR Security Scheme Using USRP Devices	Nihayatus Sa'adah and I Gede Puja Astawa (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
11.45-12.00	1570483191	Size Reduction of A Microstrip Antenna using Loading Circuit Method for UHF Band	Budi Aswoyo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Akuwan Saleh (Electronic Engineering Polytechnic Institute of Surabaya, in Indonesia, Indonesia); Arifin Arifin (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
12.00-12.15	1570483528	Implementation of Dead Reckoning System Using Fingerprint and K-NN Algorithm for An Object Position and Posture Estimation	Asti Putri Rahmadini (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Kristalina and Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)

Session : Parallel Session 01
Location : Room 4 - The Denpasar Ball Room
Moderator : Dr. Raden Sanggar Dewanto
Date : Monday, October 29th, 2018
Track : Robotics Technology and Control Systems
Topic : D1

Time	ID Paper	Title	Author(s)
11.00-11.15	1570475439	Forward Kinematics with Full Body Analysis in "T-FLoW" Humanoid Robot	Dimas Pristovani Riananda (Electronics Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Eko Henfri Binugroho (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia)
11.15-11.30	1570478272	Corner Detection for Room Mapping of Fire Fighting Robot	Ahmad Ulil Amri and Fernando Ardilla (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Bayu Sandi Marta (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.30-11.45	1570482779	Implementation of Balance Recovery by Slight Movement in Humanoid Robot Soccer	Aulia Khilmi Rizgi (Politeknik Elektronika Negeri Surabaya, Indonesia); Muhammad Muhajir (Universitas Islam Indonesia, Indonesia); Edi Sutoyo (Telkom University, Indonesia); Ilham Fakhrol Arifin, Ryan Satria Wijaya, Mochamad Ayuf Basthomi, Ahmad Habib Almutawakkil, Ibrahim Musthofainal, Anhar Risnumawan and Anggraeni Martianda (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.45-12.00	1570483397	Improving The Accuracy and Controlling The Shooting Power in a Wheeled Soccer Robot	Amre Syamsudin and Iwan Kurnianto Wibowo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Mochamad Mobed Bachtiar (Politeknik Elektronika Negeri Surabaya, Indonesia)
12.00-12.15	1570483478	Deep Features Representation for Automatic Targeting System of Gun Turre	Muhamad Khoirul Anwar (Politeknik Elektronika Negeri Surabaya, Indonesia); Muhammad Muhajir (Universitas Islam Indonesia, Indonesia); Muhammad Labiyb Afakh and Anhar Risnumawan (Politeknik Elektronika Negeri Surabaya, Indonesia); Edi Sutoyo (Telkom University, Indonesia); Didik Purnomo, Endah Suryawati Ningrum, Zaqiatud Darojah and Adytia Darmawan (Politeknik Elektronika Negeri Surabaya, Indonesia); Mohamad Nasyir Tamara (Politeknik Elektronika Negeri Surabaya & EEPIS, Indonesia)

Session : Parallel Session 02
Location : Room 1 - The Denpasar Ball Room
Moderator : Dr. Anang Tjahjono
Date : Monday, October 29th, 2018
Track : Power Engineering and Energy Technology
Topic : A2

Time	ID Paper	Title	Author(s)
16.00-16.15	1570483885	Performance Analysis of Storage Tank with Natural Insulating Material in Solar Water Heater System	Arrad Ghani Safitra, Lohdy Diana and Kurnia Devi Ariswanda (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia)
16.15-16.30	1570483950	Evaluation of Hysteresis Loss Curve on 3 Phase Induction Motor by Using Cascade Feed Forward Neural Network	Bayu Praharsena (Politeknik Elektronika Negeri Surabaya, Indonesia); Era Purwanto (Electronic Engineering Polytechnic Institute Of Surabaya, Indonesia); Arman Jaya (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Muhammad Rizani Rusli (Politeknik Elektronika Negeri Surabaya, Indonesia); Handri Toar (Politeknik Negeri Batam & Politeknik Elektronika Negeri Surabaya, Indonesia); Ridwan WK (Politeknik Negeri Batam, Indonesia); Angga Aditya (PENS, Indonesia); Indra Ferdiansyah
16.30-16.45	1570484694	Design and Implementation of Partial M-Type Zero Voltage Resonant Circuit Interleaved Bidirectional DC-DC Converter (Energy Storage and Load Sharing)	Indra Ferdiansyah and Indhana Sudiharto (Politeknik Elektronika Negeri Surabaya, Indonesia); Mochamad Abdul Mughis (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Diah Yanaratri (Politeknik Elektronika Negeri Surabaya, Indonesia)
16.45-17.00	1570488498	Levenberg Marquardt Backpropagation Neural Network for Harmonic Detection	Dimas Okky Anggriawan, Indhana Sudiharto, Endro Wahjono, Eka Prasetyono, Anang Tjahjono and Achmad Satriawan (Politeknik Elektronika Negeri Surabaya, Indonesia)
17.00-17.15	1570488594	Robustness Analysis of PID-Cuckoo Search Algorithm to Voltage Control in Three Phase Synchronous Generator with Dynamic Load Condition	Farid Dwi Murdianto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Moh. Zaenal Efendi and Hayat Nur Baweani (Politeknik Elektronika Negeri Surabaya, Indonesia)

Session : Parallel Session 02
Location : Room 2 - The Denpasar Ball Room
Moderator : Dr. I Gede Puja Astawa
Date : Monday, October 29th, 2018
Track : Electronics Systems and Electrics Technology
Topic : B2

Time	ID Paper	Title	Author(s)
16.00-16.15	1570483462	Performance and Exhaust Gas Analysis Of A Four Stroke Engine Using Oxy hydrogen Gas As Supplementary Fuel	Rifah Amalia, Joke Pratilastiarso, Hendrik Elvian Gayuh Prasetya and Muhammad Yanuar Risqi Fadhilah (Politeknik Elektronika Negeri Surabaya, Indonesia)
16.15-16.30	1570483533	Fuzzy Logic Based Control System Temperature, pH and Water Salinity on Vanammei Shrimp Ponds	Vivien Wardhany, Herman Yuliandoko and Subono Subono (State Polytechnic of Banyuwangi, Indonesia); M. Udin Harun Al Rasyid (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); I Gede Puja Astawa (Politeknik Elektronika Negeri Surabaya, Indonesia)
16.30-16.45	1570486624	Vein Visualization System Using Camera and Projector Based on Distance Sensor	I Putu Adi Surya Gunawan and Riyanto Sigit (Politeknik Elektronika Negeri Surabaya, Indonesia); Agus Indra Gunawan (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
16.45-17.00	1570476840	Analysis of Cell Zooming Technique Using Adaptive Traffic Load Balancing Method on Macrocell Base Station	Intan Karnila, Yetik Kusumaningrum and Rina Rachmawati (Electronics Engineering Polytechnic Intitute of Surabaya, Indonesia)
17.00-17.15	1570477774	Estimation of Urban Traffic State Using Simulation of Urban Mobility (SUMO) to optimize Intelligent Transport System in Smart City	Mega Ayu Dian Khumara (Indonesia, Indonesia); Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Lubna Fauziyyah (PENS, Indonesia)

Session : Parallel Session 02
Location : Room 3 - The Denpasar Ball Room
Moderator : Dr. Prima Kristalina
Date : Monday, October 29th, 2018
Track : Telecommunication Engineering Technology
Topic : C2

Time	ID Paper	Title	Author(s)
16.00-16.15	1570483655	A Reciprocity Approach for Shared Secret Key Generation Extracted from Received Signal Strength in The Wireless Networks	Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Mike Yuliana (EEPIS, Indonesia); Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
16.15-16.30	1570483693	Local Scattering Detection Around Relay on Multi-Hop MIMO Channels Using SDRs in Time Domain	Martianda Erste Anggraeni and Hendy Briantoro (Politeknik Elektronika Negeri Surabaya, Indonesia)
16.30-16.45	1570483698	Performance Evaluation of Refinement Method in Indoor Localization	Afifah Ramadhani (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Kristalina and Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
16.45-17.00	1570483722	Performance Evaluation of Indoor Characteristic based on Bluetooth Low Energy Communication System through Statistical Approach	Gigih Yumantoro (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Kristalina and Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
17.00-17.15	1570483828	Power Saving Analysis of Peak to Average Power Ratio Reduction Technique in OFDM System using Hybrid Improved Partial Transmit Sequence dan Clipping Filtering Technique	Yoedy Moegiharto, Ida Anisah, Hendy Briantoro and Inka Dewi (Politeknik Elektronika Negeri Surabaya, Indonesia)

Session : Parallel Session 02
Location : Room 4 - The Denpasar Ball Room
Moderator : Dr. Bambang Sumantri
Date : Monday, October 29th, 2018
Track : Robotics Technology and Control Systems
Topic : D2

Time	ID Paper	Title	Author(s)
16.00-16.15	1570483662	Tracker Planet of Mars Using Hough Transform Method and Fuzzy Logic	Demas Tikno, Dem (Electronic Engineering Polytechnic Institute of Surabaya & PENS, Indonesia); Indra Adji Sulistijono (Politeknik Elektronika Negeri Surabaya (PENS) & Electronics Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Zaqiatud Darojah (Politeknik Elektronika Negeri Surabaya, Indonesia); Bambang Setiahadhi (Indonesian National Institute of Aeronautics and Space (LAPAN), Indonesia)
16.15-16.30	1570483670	Two Wheels Line Following Balancing Robot Control using Fuzzy Logic and PID on Sloping Surface	Nurul Hasanah (Politeknik Elektronika Negeri Surabaya, Indonesia); Ali Husein Alasiry (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Bambang Sumantri (Politeknik Elektronika Negeri Surabaya, Indonesia)
16.30-16.45	1570483709	Mobile Robot Navigation Based On Odometry and IMU Sensor with Position Estimation and Orientation Using Extended Kalman Filter	Choirul Anam (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Ali Husein Alasiry (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Alrijadjjis Alrijadjjis (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS) & Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
16.45-17.00	1570483927	Fusion of Feedforward and Feedback Control Using Fuzzy for Active Handling and Dribbling System in MSL Robot Soccer	Muhammad Irfan Mas'udi (Politeknik Elektronika Negeri Surabaya, Indonesia); Fernando Ardilla and Iwan Kurnianto Wibowo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
17.00-17.15	1570483952	Fall Detection in T-Flow Humanoid Robot: V-REP Simulation	Mochammad Arfaq (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia)

Session : Parallel Session 03
Location : Room 1 - The Denpasar Ball Room
Moderator : Dr. Tri Budi Santoso
Date : Tuesday, October 30th, 2018
Track : Telecommunication Engineering Technology
Topic : A3

Time	ID Paper	Title	Author(s)
10.30-10.45	1570484669	Evaluation of the Link Power Budget for Fiber To The Home Networks	Edy Budiman (Universitas Mulawarman, Indonesia); Sitti Alam (STMIK Sepuluh Nopember, Indonesia); Mohammad Aldrin Akbar (University of Yapis Papua, Indonesia); Haeruddin Haeruddin, Muhammad Firdaus and Faza Alameka (Universitas Mulawarman, Indonesia)
10.45-11.00	1570485679	A Spots Independent for NVIS Channels Observation	Titon Dutono (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.00-11.15	1570486486	Design of Data Harvesting System With Radio Frequency Modules for Monitoring Performance of Solar Cells	S. Suherman, Peby Purnawan and Akhmad Musafa (Universitas Budi Luhur, Indonesia); Ardyono Priyadi (ITS, Indonesia); Margo Pujiantara (Institut Teknologi Sepuluh Nopember, Indonesia); Mauridhi Hery Purnomo (Institut of Technology Sepuluh Nopember, Indonesia)
11.15-11.30	1570487211	Performance Evaluation of PEGASIS Protocol for Energy Efficiency	Muhammad Mufid (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); M. Udin Harun Al Rasyid and Iwan Syarif (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
11.30-11.45	1570488609	Performance Analysis of Empirical Path Loss Models for UHF TV Broadcast on Mountainous Area	Martianda Erste Anggraeni and Naning Dwiyanti (Politeknik Elektronika Negeri Surabaya, Indonesia)

Session : Parallel Session 03
Location : Room 2 - The Denpasar Ball Room
Moderator : Dr. Achmad Basuki
Date : Tuesday, October 30th, 2018
Track : Robotics Technology and Control Systems
Topic : B3

Time	ID Paper	Title	Author(s)
10.30-10.45	1570484554	Implementation of Victims Detection Framework on Post Disaster Scenario	Tegar Imansyah (Politeknik Elektronika Negeri Surabaya, Indonesia); Muhammad Muhajir (Universitas Islam Indonesia, Indonesia); Muhamad Khoirul Anwar (Politeknik Elektronika Negeri Surabaya, Indonesia); Indra Adji Sulistijono (Politeknik Elektronika Negeri Surabaya (PENS) & Electronics Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Achmad Basuki (Politeknik Elektronika Negeri Surabaya, Indonesia); Anhar Risnumawan (Politeknik Elektronika Negeri Surabaya, Indonesia); Edi Sutoyo (Telkom University, Indonesia)
10.45-11.00	1570484921	Multivariable Control for Jumping Mechanism of T-FLoW Humanoid Robot	Durrotun Nashihin (Politeknik Elektronika Negeri Surabaya; ER2C, Indonesia); Dimas Pristovani Riananda (Electronics Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Bayu Sandi Marta (Politeknik Elektronika Negeri Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia)
11.00-11.15	1570486576	Improving Field and Ball Detector for Humanoid Robot Soccer EROS platform	Aulia Khilmi Rizgi (Politeknik Elektronika Negeri Surabaya, Indonesia); Muhammad Muhajir (Universitas Islam Indonesia, Indonesia); Edi Sutoyo (Telkom University, Indonesia); Imam Fajar Fauzi (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Rokhmat Febrianto, Cipta Priambodo, Miftahul Anwar, Anhar Risnumawan and Anggraeni Martianda (Politeknik Elektronika Negeri Surabaya, Indonesia)

11.15-11.30	1570486937	Application SLAM and Path Planning using A-Star Algorithm for Mobile Robot in Disaster Area	Mohamad Nasyir Tamara (electronics engineering polytechnics institute of Surabaya)
11.30-11.45	1570487046	Mechanical and Forward Kinematic Analysis of Prosthetic Robot Hand for T-FLoW 3.0	Yoga Bachtiar (Politeknik Elektronika Negeri Surabaya, Indonesia); Dimas Pristovani Riananda (Electronics Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EPPIS), Indonesia); Dadet Pramadihanto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia)
11.45-12.00	1570488122	eROV: Preliminary Design of 5 DOF ROV using 6 Thrusters Configuration	Eko Henfri Binugroho (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia)