

## Technical Program

**2019 International Electronics Symposium**  
Date: September 27-28<sup>th</sup>, 2019  
Venue: Sheraton Hotel, Surabaya, Indonesia

Time	Friday, 27 September 2019		
07.30 - 08.30	Registration		
08.30 - 09.00	Opening Ceremony (IES General Chairman: Sri trusta Sukaridhoto, ST., Ph.D., IEEE Indonesia Section: Prof. Wisnu Djatmiko, PENS Director: Dr. Zainal Arief)		
08.30 - 11.15	Keynote Speech I (Prof. Noboru Koshizuka), Keynote Speech II (Prof. Eugen Dedu), and Keynote Speech III (Prof. Yoshiteru Ishida); Moderator: Dr. Muhammad Agus Zainuddin		
11.15 - 12.30	Friday Pray		
12.00 - 13.15	Lunch		
13.15 - 15.15	Keynote Speech IV (Prof. Nobuo Funabiki), Keynote Speech V (Prof. Seo Young Bong), and Keynote Speech VI (Prof. Akio Gofuku); Moderator: Amang Sudarsono, Ph.D.		
15.15 - 15.30	Coffee Break		
15.30 - 17.30	Parallel Session I		
	Room 1 - Topic IES-ETA 1: Oral Presentation (8 Papers)	Room 2 - Topic IES-ETA 2: Oral Presentation (8 Papers)	Room 3 - Topic IES-ETA 3: Oral Presentation (7 Papers)
	Room 4 - Topic IES-ETA 4: Oral Presentation (8 Papers)	Room 5 - Topic IES-ETA 5: Oral Presentation (8 Papers)	Poster Session (20 Posters)
Time	Saturday, 28 September 2019		
08.00 - 09.00	Registration		
09.00 - 11.30	Parallel Session II		
	Room 1 - Topic IES-ETA 6: Oral Presentation (5 Papers)	Room 2 - Topic IES-KCIC 1: Oral Presentation (10 Papers)	Room 3 - Topic IES-KCIC 2: Oral Presentation (10 Papers)
	Room 2 - Topic IES-KCIC 3: Oral Presentation (10 Papers)	Room 3 - Topic IES-KCIC 4: Oral Presentation (10 Papers)	---
11.30 - 13.00	Lunch		
13.00 - 15.00	Parallel Session III		
	Room 1 - Topic IES-KCIC 5: Oral Presentation (7 Papers)	Room 2 - Topic IES-KCIC 6: Oral Presentation (5 Papers)	Room 3 - Topic IES-KCIC 7: Oral Presentation (5 Papers)
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15.00 - 15.30	Coffee Break		
15.30 - 16.00	Closing Ceremony		

**Note:** Room 1: Sriwijaya Room II  
Room 2: Daha Room  
Room 3: Jenggala Room

Room 4: Singasari Room  
Room 5: Kahuripan Room

**Session** : Parallel Session 01  
**Location** : Room 1 - Sriwijaya Room II  
**Moderator** : Dr. Anang Tjahjono  
**Date** : Friday, 27 September 2019  
**Track** : Power Engineering and Energy Technology  
**Topic** : IES-ETA 1

Time	ID Paper	Title	Author(s)
15:30 - 15:45	1570573068	Hybrid Maximum Power Point Tracking Using Artificial Neural Network-Incremental Conduction With Short Circuit Current of Solar Panel	Muhammad Nizar Habibi, Novie Ayub Windarko and Anang Tjahjono (Politeknik Elektronika Negeri Surabaya, Indonesia)
15:45 - 16:00	1570575706	Identification and Protection of Series DC Arc Fault for Photovoltaic Systems Based on Fast Fourier Transform	M. Iqbal Fitrianto, Endro Wahjono, Dimas Okky Anggriawan, Eka Prasetyono, Rauf Hanrif Mubarok and Anang Tjahjono (Politeknik Elektronika Negeri Surabaya, Indonesia)
16:00 - 16:15	1570575879	Numerical Investigation of Airflow in a Trapezoidal Solar Air Heater Channel	Lohdy Diana, Arrad Ghani Safitra and Gilang Muhammad (Politeknik Elektronika Negeri Surabaya, Indonesia)
16:15 - 16:30	1570576019	Multistage Wind Turbine Capability to The Rotor Axial Distance Changes	Setyo Nugroho, Lohdy Diana and Devi Ariyanti (Politeknik Elektronika Negeri Surabaya, Indonesia)
16:30 - 16:45	1570579311	Short Circuit Current Based ANN MPPT For Battery Charging	Achmad Hidayat (Politeknik Elektronika Negeri Surabaya, Indonesia); Ayatullah Bela Muhammad, Novie Ayub Windarko and Moh. Zaenal Efendi (Politeknik Elektronika Negeri Surabaya, Indonesia)
16:45 - 17:00	1570579412	Smart Detection Of AC Series Arc Fault On Home Voltage Line Based On Fast Fourier Transform And Artificial Neural Network	Muhammad Alwi Abdul Rachman, Eka Prasetyono, Dimas Okky Anggriawan and Anang Tjahjono (Politeknik Elektronika Negeri Surabaya, Indonesia)
17:00 - 17:15	1570583342	Control Heading on Three Wheel Electric Vehicles using Fuzzy Logic for E-Cak	Siti Aminah (PENS, Indonesia); Bagas Mahardika (Electronics Engineering Polytechnic Indonesia Of Surabaya, Indonesia); Nofria Hanafi and Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (PENS, Indonesia)

17:15 - 17:30	1570583713	Venturini Modulation Based Matrix Converter Controlled Induction Motor Drive	Era Purwanto (Electronic Engineering Polytechnic Institute Of Surabaya, Indonesia); Farid Dwi Murdianto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Gamar Basuki (Electronic Engineering Polytechnic Institute of Surabaya & Jl. Raya-ITS Sukolilo, Surabaya, Indonesia); Dahried Wahyu Herlambang (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Mentari Putri Jati (Politeknik Elektronika Negeri Surabaya, Indonesia)
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**Session** : Parallel Session 01  
**Location** : Room 2 - Daha Room  
**Moderator** : Dr. Agus Indra Gunawan  
**Date** : Friday, 27 September 2019  
**Track** : Electronics Systems and Electrics Technology and Telecommunication Engineering Technology  
**Topic:** : IES-ETA 2

Time	ID Paper	Title	Author(s)
15:30 - 15:45	1570575938	Prototype Design Of Automatic Deep-Frier For Pastel Using Fuzzy Logic Method	Desire Kurnia S (Politeknik Elektronika Negeri Surabaya, Indonesia); Ali Husein Alasiry (Politeknik Elektronika Negeri Surabaya & Electronics Engineering Institute Technology of Surabaya, Indonesia); Eru Puspita (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
15:45 - 16:00	1570579520	Image and Video Transmission in Nanonetworks	Muhammad Agus Zainuddin (Politeknik Elektronika Negeri Surabaya, Indonesia)
16:00 - 16:15	1570583516	Development of Automated Weather Observing System Based on Realtime Web Display	Sugiarto (Universitas Indonesia & BMKG, Indonesia)
16:15 - 16:30	1570583757	A Study for Estimation of Bio Organism Content in Aquaculture Pond Based on Image Color and Light Intensity	Agus Indra Gunawan (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Bima Sena Bayu Dewantara and Ariesa Pratama (Politeknik Elektronika Negeri Surabaya, Indonesia); Indah Puspitasari and Tri Setyastuti (Politeknik Kelautan dan Perikanan Sidoarjo, Indonesia)
16:30 - 16:45	1570570768	Reciprocity Enhancement in V2V Key Generation System by using HPK Method	Inka Trisna Dewi (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono and Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Mike Yuliana (EEPIS, Indonesia)
16:45 - 17:00	1570571528	An Ethical Review of Operating Procedures Concerning The Current Condition of 7 MHz Amateur Band Usage in Indonesia	Titon Dutono (Politeknik Elektronika Negeri Surabaya, Indonesia)

17:00 - 17:15	1570572862	Brightness on LEDs for Light Fidelity Applications and Measurements	Tamara Maharani (Electronic Engineering Polytechnic Institute Surabaya, Indonesia); Muhammad Agus Zainuddin and Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia)
17:15 - 17:30	1570573083	Efficient Energy for Cluster Head Selection using New LEACH-based routing protocol in Wireless Sensor Network	Aidil Saputra Kirsan (Politeknik Elektronika Negeri Surabaya, Indonesia); M. Udin Harun Al Rasyid and Iwan Syarif (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)

**Session** : Parallel Session 01  
**Location** : Room 3 - Jenggala Room  
**Moderator** : M. Udin Harun Al Rasyid, Ph.D  
**Date** : Friday, 27 September 2019  
**Track** : Telecommunication Engineering Technology  
**Topic** : IES-ETA 3

Time	ID Paper	Title	Author(s)
15:30 - 15:45	1570573173	Security System for Data Location of Travelling User using RSA based on Group Signature	Anindya Dwi Putri Islamidina (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Titon Dutono
15:45 - 16:00	1570573244	A Report of C-class Solar Flare Affecting NVIS Link at 5 MHz Band	Titon Dutono (Politeknik Elektronika Negeri Surabaya, Indonesia); Zulmi Zakariyah (PENS, Indonesia); Tri Budi Santoso (Electronic Engineering Polytechnic of Surabaya (EEPIS))
16:00 - 16:15	1570575811	Smart Home System for Fire Detection Monitoring Based on Wireless Sensor Network	M. Udin Harun Al Rasyid (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Depandi Enda (Politeknik Negeri Bengkalis); Ferry Astika Saputra (Politeknik Elektronika)
16:15 - 16:30	1570578041	Implementation of K-NN Fingerprint Method on Receiving Server for Indoor Mobile Object Tracking	Gegap Putri Gempita and Diyanti Wilasari (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia)
16:30 - 16:45	1570579434	An Implementation of Shared Symmetric Key Generation Extracted from Received Signal Strength in Vehicle to Infrastructure Communication	Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Mike Yuliana (EEPIS, Indonesia); Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Reni Soelistijorini (EEPIS, Indonesia)
16:45 - 17:00	1570579702	Performance Evaluation of DVB-T2 TV Broadcast For Fixed Reception	Lila Julianawati, Qurrota A'yun and Anggraeni Martianda (Politeknik Elektronika Negeri Surabaya, Indonesia); Rosiyah Faradisa (Politeknik Negeri Surabaya/ Electronic Engineering Polytechnic Institute of Technology, Indonesia)

17:00 - 17:15	1570583769	Smart Environment: Accuracy of a server side model in design topology WSN and IoT	Eko Prayitno (Politeknik Negeri Bengkalis, Indonesia); Nurul Fahmi (Politeknik Negeri Bengkalis - Indonesia, Indonesia); M. Udin Harun Al Rasyid and Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
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**Session** : Parallel Session 01  
**Location** : Room 4 - Singasari Room  
**Moderator** : Dr. Raden Sanggar Dewanto  
**Date** : Friday, 27 September 2019  
**Track** : Robotics Technology and Control Systems  
**Topic** : IES-ETA 4

Time	ID Paper	Title	Author(s)
15:30 - 15:45	1570571018	Online Trajectory Generation for Differential Drive Mobile Robots Using Multi-Dimensional Rate Limiters	Anja Patricia Regina Lauer (Toyohashi University of Technology & University of Stuttgart, Institute for System Dynamics, Japan); Naoki Uchiyama (Toyohashi University of Technology, Japan); Oliver Sawodny (University of Stuttgart, Germany)
15:45 - 16:00	1570572924	Shape Recognition of Material Heaps in Outdoor Environments and Optimal Excavation Planning	Martin Satoshi Finkbeiner and Naoki Uchiyama (Toyohashi University of Technology, Japan); Oliver Sawodny (University of Stuttgart, Germany)
16:00 - 16:15	1570573140	Kinematic and Dynamic Modelling of "T-FLoW" Humanoid Robot for Ascending and Descending Stair	Wulandari Puspita Sari (Electronic Engineering Polytechnic Institute of Surabaya & ER2C, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of
16:15 - 16:30	1570573180	3D Indoor Mapping Based on Camera Visual Odometry Using Point Cloud	Krisna Adji Syahputra (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
16:30 - 16:45	1570573187	Dynamic Stability Walking On Inclined Surface For "T-FLoW" Humanoid Robot Using Design Pattern Step	Adi Sucipto (Electronic Engineering Polytechnic Institute Of Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (PENS, Indonesia)
16:45 - 17:00	1570575307	Speed and Balancing Control of Two Cables Pulley-Gripper System for Delivery Drone	Husein Aji Pratama and Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); M. Lukman Baidhowi, Dimas Pristovani Riananda and Riza Syah (PT. Bukalapak, Indonesia); Dadet Pramadihanto and Eko Henfri Binugroho (Politeknik Elektronika Negeri Surabaya, Indonesia)

17:00 - 17:15	1570575399	2D Mapping and Localization using Laser Range Finder for Omnidirectional Mobile Robot	Achmad Aditya Kusumo, Bayu Sandi Marta and Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
17:15 - 17:30	1570575674	Application of Lagrange Method to Analyze Forces of Gyroscope Inverted Pendulum	Yayang Permadi (Politeknik Elektronika Negeri Surabaya, Indonesia); Adytia Darmawan (Politeknik Elektronika Negeri Surabaya, Indonesia); Endra Pitowarno (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)

**Session** : Parallel Session 01  
**Location** : Room 5 - Kahuripan Room  
**Moderator** : Dr. Bima Sena Bayu Dewantara  
**Date** : Friday, 27 September 2019  
**Track** : Robotics Technology and Control Systems  
**Topic** : IES-ETA 5

Time	ID Paper	Title	Author(s)
15:30 - 15:45	1570575873	2DoFs Teleoperation Wearable Robots for Post Stroke Rehabilitation	Firzatullah Dwiko Ramadhan and Endah Suryawati Ningrum (Politeknik Elektronika Negeri Surabaya, Indonesia); Nofria Hanafi (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Eny Kusumawati (Politeknik Elektronika Negeri Surabaya(PENS)-Indonesia, Indonesia)
15:45 - 16:00	1570576001	Ball Detection Under Variety Lighting using Omnidirectional Camera	Satria Rachmad Santosa (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Iwan Kurnianto Wibowo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
16:00 - 16:15	1570576011	A Propose of PID Stability Control in A Gyro-Disc Actuator System	Rachmad Kusumardana (Politeknik Elektronika Negeri Surabaya, Indonesia); Endra Pitowarno (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Adytia Darmawan (Politeknik Elektronika Negeri Surabaya, Indonesia); Eny Kusumawati (Politeknik Elektronika Negeri Surabaya(PENS)-Indonesia, Indonesia)
16:15 - 16:30	1570576027	Body Balancing Control for EILERO Quadruped Robot while Walking on Slope	Zikri Nasution and Andre Faqih Ilham Suparman (Politeknik Elektronika Negeri Surabaya, Indonesia); Giffar Aji Prasetyo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Ali Husein Alasiry (Politeknik Elektronika Negeri Surabaya & Electronics Engineering Institute Technology of Surabaya, Indonesia); Eko Henfri Binugroho and Adytia Darmawan (Politeknik Elektronika Negeri Surabaya, Indonesia)

16:30 - 16:45	1570576067	Teleoperation Robot Arm Using Depth Sensor	Muhammad Syakir and Endah Suryawati Ningrum (Politeknik Elektronika Negeri Surabaya, Indonesia); Indra Adji Sulistijono (Politeknik Elektronika Negeri Surabaya (PENS) & Electronics Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia)
16:45 - 17:00	1570579261	Real-Time Object Following USV using Hough Circle Transform	Achmad Khozy Tajuddin, Novian Fajar Satria and Eko Budi Utomo (Politeknik Elektronika Negeri Surabaya, Indonesia)
17:00 - 17:15	1570579439	Pose Estimation on Soccer Robot using Data Fusion from Encoders, Inertial Sensor, and Image Data	Zanuar Tri Romadon (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Hary Oktavianto (Politeknik Elektronika Negeri Surabaya, Indonesia); Iwan Kurnianto Wibowo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Erna Alfi Nurrohmah and Renardi Adryantoro Priambudi (Politeknik Elektronika Negeri Surabaya, Indonesia)
17:15 - 17:30	1570579563	Hardware Architecture For Robot Soccer ERSOW Using Control Area Network Bus	Darma Ji (Electronic Engineering Politechnic Institute of Surabaya, Indonesia); Iwan Kurnianto Wibowo and Fernando Ardilla (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)

**Session** : Poster Presentation and Exhibition Session  
**Location** : Pre-Function Area  
**Moderator** : Dr. Moch. Zen Samsono Hadi and Dr. Reesa Akbar  
**Date** : Friday, 27 September 2019  
**Time** : 15.30 - 17.15

No	ID Paper	Title	Author(s)
1	1570575729	Real Time Voltage Flicker Detection Based on Fast Fourier Transform	Denda Zakaria, Epyk Sunarno, Dimas Okky Anggriawan and Welly Ganda (Politeknik Elektronika Negeri Surabaya, Indonesia)
2	1570579586	Sliding Mode Control for Off Grid Neutral Point Clamped Multilevel Inverter	Mochamad Ari Bagus Nugroho, Atho' Ullah, Bambang Sumantri and Novie Ayub Windarko (Politeknik Elektronika Negeri Surabaya, Indonesia)
3	1570583711	Performance Analysis of Helical Savonius River Current Turbine Using Computational Fluid Dynamic	Mafira Ramdhani, Setyo Nugroho and Lohdy Diana (Politeknik Elektronika Negeri Surabaya, Indonesia)
4	1570583752	Design and Simulation MPPT on Photovoltaic Using Locust Swarm Algorithm	Moh. Rifqi Faqih, Sutedjo Sutedjo and Endro Wahjono (Politeknik Elektronika Negeri Surabaya, Indonesia)
5	1570575616	Acoustic Noise Mapping on Various Location in Surabaya	Olivia Putri Rosmala (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Tri Budi Santoso (Electronic Engineering Polytechnic of Surabaya (EEPIS); Huda Miftahul (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
6	1570579651	BER Performance of Joint PTS PAPR Reduction Technique and Wiener HPA Predistortion in OFDM System	Yoedy Moegiharto and Ida Anisah (Politeknik Elektronika Negeri Surabaya, Indonesia); Aliva Meidya Kautsar Bebyrahma (Politeknik Elektronika Negeri Surabaya)
7	1570575867	Research Study of Occupancy Grid map Mapping Method on Hector SLAM Technique	Syahrul Fajar Andriawan Eka, Wijaya, Didik Purnomo, Eko Budi Utomo and Muhammad Anandito (Politeknik Elektronika Negeri Surabaya, Indonesia)
8	1570576042	Gait Trajectory Planning for Pose Stability on Quadrupe Robot Movement	Giffar Aji Prasetyo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Andre Faqih Ilham Suparman, Zikrii Nasution, Eko Henfri Binugroho and Adytia Darmawan (Politeknik Elektronika Negeri Surabaya, Indonesia)

9	1570576048	Mobile Robot Position Control Using Computer Vision	Ridha Nurlaili and Anhar Risnumawan (Politeknik Elektronika Negeri Surabaya, Indonesia); Indra Adji Sulistijono (Politeknik Elektronika Negeri Surabaya (PENS) & Electronics Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia)
10	1570579690	Towards an Automatic Aircraft Wreckage Detection Using A Monocular Camera of UAV	Anhar Risnumawan, Muhammad Ilham Perdana, Alif Habib Hidayatulloh and A. Khoirul Rizal (Politeknik Elektronika Negeri Surabaya, Indonesia); Indra Adji Sulistijono
11	1570575767	Implementation of Realtime Database for IoT Home Automation and Energy Monitoring Apps based on Android	Enggar Swahadika (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Adnan Rachmat Anom Besari (Politeknik Elektronika Negeri Surabaya (PENS) & Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Iwan Kurnianto Wibowo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
12	1570575961	Design and Implementation of Various Payment System for Product Transaction in Mobile Application	Dewi Sandy Islamiati (Electronic Engineering Polytechnic Institute of Surabaya & Politeknik Elektronika Negeri Surabaya, Indonesia); Adnan Rachmat Anom Besari (Politeknik Elektronika Negeri Surabaya (PENS) & Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dias Agata (Politeknik Elektronika Negeri Surabaya, Indonesia)
13	1570575052	AT-Mo: Wireless Data Collection System For Physiology Monitoring of Athlete	Dhodit Rengga Tisna (Politeknik Elektronika Negeri Surabaya, Indonesia); M. Udin Harun Al Rasyid (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia)
14	1570570990	Laboratory Attendance Dashboard Website Based on Face Recognition System	Kevin A Winanta, Resha Dwika Hefni Al-Fahsi, Aleksander Jiwandono, Thea Kirana and Okta Fajar Suryani (Universitas Gadjah Mada, Indonesia); Igi Ardiyanto (Universitas Gadjah Mada & Faculty of Engineering, Indonesia)
15	1570571095	Moving Objects Counting Dashboard Web Application Design	Kevin A Winanta, Thea Kirana, Resha Dwika Hefni Al-Fahsi, Aleksander Jiwandono and Okta Fajar Suryani (Universitas Gadjah Mada, Indonesia); Igi Ardiyanto (Universitas Gadjah Mada & Faculty of Engineering, Indonesia)

16	1570575945	The Development of Digital Board Game to Introduce Indonesian Wildlife using AR Technology and NFC	Mohamad Safrodin (PENS, Indonesia); Fahim Bagar and Fidelis Yoga Pralista (Politeknik Elektronika Negeri Surabaya, Indonesia)
17	1570577631	Web Explainer for Children's education with Image Recognition Based on Deep Learning	Moch Fahmi Risal, Sritrusta Sukaridhoto and Hestiasari Rante (Politeknik Elektronika Negeri Surabaya, Indonesia)
18	1570579613	Comparison of Video IPTV and Digital TV DVB-T2 Quality for Indonesia TV Broadcast	Burhanudin Abu Sujak and Citra Murdaningtyas (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Anggraeni Martianda and Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia)
19	1570583610	Development of Conversation Application as English Learning using WebRTC	Alexander Ryan and Akhmad Alimudin (Politeknik Elektronika Negeri Surabaya, Indonesia); Aliv Faizal Muhammad (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
20	1570575844	Participatory Design with Children in Designing a Smartphone Holder	Armita Dewi Cahyanti (Politeknik Elektronika Negeri Surabaya, Indonesia); Hestiasari Rante (Politeknik Elektronika Negeri Surabaya, Indonesia); Achmad Basuki (Politeknik Elektronika Negeri Surabaya, Indonesia)

**Session** : Parallel Session 02  
**Location** : Room 1 - Sriwijaya Room II  
**Moderator** : Dr. Prima Kristalina  
**Date** : Saturday, 28 September 2019  
**Track** : Robotics Technology and Control Systems  
**Topic:** : IES-ETA 6

Time	ID Paper	Title	Author(s)
09.00 - 09.15	1570583605	Optimization Estimating 3D Object Pose Using Levenberg-Marquardt Method	Dewi Mutiara Sari (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Vina Wahyuni Eka Putranti (MJIIT - Universiti Teknologi Malaysia, Malaysia)
09.15 - 09.30	1570583726	A Moving Human Detection and Tracking using Combination of HOG and Color Histogram	Achmad Ilham Imanuddin (Politeknik Elektronika Negeri Surabaya, Indonesia); Prima Kristalina (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia)
09.30 - 09.45	1570583734	Static and Dynamic Analysis of eROV Mechanical Design using CFD	Eko Henfri Binugroho and Beni Setyawan (Politeknik Elektronika Negeri Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (PENS, Indonesia); Wafiq Qurochman (Surabaya & Politeknik Elektronika Negeri Surabaya, Indonesia)
09.45 - 10.00	1570583746	eROV: Depth and Balance Control for ROV Motion using Fuzzy-PID Method	Eko Henfri Binugroho (Politeknik Elektronika Negeri Surabaya, Indonesia); Wafiq Qurochman (Surabaya & Politeknik Elektronika Negeri Surabaya, Indonesia); Muhammad Irfan Mas'udi (Politeknik Elektronika Negeri Surabaya, Indonesia); Raden Sanggar Dewanto (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Dadet Pramadihanto (PENS, Indonesia)
10.00 - 10.15	1570583736	Design and Simulation MPPT on Photovoltaic Using Locust Swarm Algorithm	M Rizky (Electronis Engineering Polytechnic Institute of Surabaya, Indonesia); Eka Prasetyono and Epyk Sunarno (Politeknik Elektronika Negeri Surabaya, Indonesia)

**Session** : Parallel Session 02  
**Location** : Room 2 - Daha Room  
**Moderator** : Dr. Idris Winarno  
**Date** : Saturday, 28 September 2019  
**Track** : Knowledge Base and Engineering  
**Topic:** : IES-KCIC 1

Time	ID Paper	Title	Author(s)
09.00 - 09.15	1570575838	Backend Server System Design Based on REST API for Cashless Payment System on Retail Community	Bob Maulana Adam (Politeknik Elektronika Negeri Surabaya, Indonesia); Adnan Rachmat Anom Besari (Politeknik Elektronika Negeri Surabaya (PENS) & Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Mochamad Mobed Bachtiar (Politeknik Elektronika Negeri Surabaya, Indonesia)
09.15 - 09.30	1570575887	HOG-based Hand Gesture Recognition Using Kinect	Kevin Nathanael Krisandria (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
09.30 - 09.45	1570575924	Human Body's Orientation Estimation Based On Depth Image	Rizka Wahyu Aditiya Saputra and Bima Sena Bayu Dewantara (Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
09.45 - 10.00	1570575978	Android Application Design as Ground Control Station (GCS) and Waypoint Navigation in Unmanned Aerial Vehicle (UAV)	Abdi Alghifara Felinanda (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Mochamad Mobed Bachtiar (Politeknik Elektronika Negeri Surabaya, Indonesia); Fernando Ardilla (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
10.00 - 10.15	1570575984	A New Method to Publish Spatial Sectoral Data and Spatial Planning in Local Government to Support One Map Policy (Case Study: East Java)	Ferry Astika Saputra, Seria Reni Dwi Astiwi and Arna Fariza (Politeknik Elektronika Negeri Surabaya, Indonesia)

10.15 -10.30	1570576004	A New Digital Application Approach of Garbage Transaction for Suroboyo Bus	Nindy Ilhami, Arna Fariza and Rengga Asmara (Politeknik Elektronika Negeri Surabaya, Indonesia)
10.30 - 10.45	1570576014	Estimated Vehicle Fuel Calculation Based on Google Map Realtime Distance	Muhammad Mufid (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Fahrul Sanjaya and Wajib Wajib (Akademi Komunitas Negeri Lamongan, Indonesia); Arif Basofi (Politeknik Elektronika Negeri Surabaya, Indonesia); Iwan Syarif (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
10.45 - 11.00	1570576031	Feature Extraction of Tomato Growth Model using Greenhouse Monitoring System	Luthfi Aminulloh (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Wahjoe Tjatur Sesulihatien (Keio University & Politeknik Elektronika Negeri Surabaya,
11.00 - 11.15	1570576082	Implementation of Motion Capture System for Swimmer Athlete Monitoring	Muhammad Aksa Hidayat Yani (Politeknik Negeri Fakfak & Informatics Manajemen, Indonesia); Sandi Bayu Aji (Electronic Engineering Polytechnic Institute Of Surabaya, Indonesia); Ika Fadhilah Ariyanti (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Sritrusta Sukaridhoto and Muhammad Agus Zainuddin (Politeknik Elektronika Negeri Surabaya, Indonesia); Achmad Basuki (Politeknik Elektronika Negeri Surabaya, Indonesia)

**Session** : Parallel Session 02  
**Location** : Room 3 - Jenggala Room  
**Moderator** : Tri harsono, Ph.D  
**Date** : Saturday, 28 September 2019  
**Track** : Computational Intelligence  
**Topic** : IES-KCIC 2

Time	ID Paper	Title	Author(s)
09.00 - 09.15	1570570991	Instance-based Deep Transfer Learning on Cross-domain Image Captioning	Rizal Setya Perdana (Brawijaya University & Toyohashi University of Technology, Indonesia); Yoshiteru Ishida (Toyohashi University of Technology, Japan)
09.15 - 09.30	1570575857	Classification On Category Of Public Responses On Television Program Using Naive Bayes Method	Devira Dwimarcayani (Politeknik Elektronika Negeri Surabaya (PENS) & Kampus PENS, Indonesia); Tessy Badriyah and Tita Karlita (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
09.30 - 09.45	1570575901	Implementation of Canny Edge Detection for Identification of Indonesian and Medina Usmani Khat Using Backpropagation	Dimas Fanny Hebrasianto Permadi (Universitas Islam Balitar, Indonesia); Muhamad Abdul Karim (Islamic University of Balitar, Indonesia)
09.45 - 10.00	1570575974	Cumulative Scores Based for Real-Time Music Beat Detection System	Fikana Mahardika Cantri, Zaqiatud Darojah and Endah Suryawati Ningrum (Politeknik Elektronika Negeri Surabaya, Indonesia)
10.00 - 10.15	1570575997	An analytical relationship retrieval scenario with temporal information data approaching to plastic waste-leaks into marine environments	Chalisa Veessommai (Kasetsart University & Data Science Research Group, Thailand); Yasushi Kiyoki (Keio University, Japan)
10.15 - 10.30	1570576049	Artificial Neural Network Through Energy Value of Empirical Mode Decomposition Feature Extraction based: Application on Bearing Fault Diagnosis	Bima Priambodo Wahyu Rianto, Endah Suryawati Ningrum and Zaqiatud Darojah (Politeknik Elektronika Negeri Surabaya, Indonesia); Hendhi Hermawan (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)

10.30 - 10.45	1570579339	Jaya-Neural Network for Server Room Temperature Forecasting Through Sensor Network	Novendra Setyawan (University of Muhammadiyah Malang, Indonesia); Muhammad Nasar (Universitas Muhammadiyah Malang, Indonesia); Nuralif Mardiyah (University of Muhammadiyah Malang, Indonesia)
10.45 - 11.00	1570579666	Music Signals Beat Tracking Based on Bidirectional Long-Short Term Memory	Choirin Nisa Ramadhani (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Endah Suryawati Ningrum and Zaqiatud Darojah (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.00 - 11.15	1570579676	Pronunciation Error Detection in Voice Input for Correct Word Suggestion	Kohei Kamimura and Kosuke Takano (Kanagawa Institute of Technology, Japan)
11.15 - 11.30	1570579719	Computer Vision System Based for Personal Protective Equipment Detection, by Using Convolutional Neural Network	Faishal Zhafran and Endah Suryawati Ningrum (Politeknik Elektronika Negeri Surabaya, Indonesia); Mohamad Nasyir Tamara (Politeknik Elektronika Negeri Surabaya & EEPIS, Indonesia); Eny Kusumawati (Politeknik Elektronika Negeri Surabaya(PENS)-Indonesia, Indonesia)

**Session** : Parallel Session 02  
**Location** : Room 4 - Singasari Room  
**Moderator** : Ali Ridho Barakbah, Ph.D  
**Date** : Saturday, 28 September 2019  
**Track** : Applied-Computing Sciences  
**Topic** : IES-KCIC 3

Time	ID Paper	Title	Author(s)
09.00 - 09.15	1570579686	Design of Digital Parenting Device Based on Multiple Intelligence to Develop Child's Potential	Nur Muhammad Ilham and Heny Yuniarti (Politeknik Elektronika Negeri Surabaya, Indonesia); Adnan Rachmat Anom Besari (Politeknik Elektronika Negeri Surabaya (PENS) & Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia)
09.15 - 09.30	1570579691	Designing Public Information Display System (PIDS) as Information Media on Railway Transportation	Muhamad Syaiful Hidayat (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Tri Harsono (Politeknik Elektronika Negeri Surabaya, Indonesia); Iwan Kurnianto Wibowo (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)
09.30 - 09.45	1570579726	Detection of Heart Condition based on Echocardiography Image using Ultrasound	Cicik Nofindarwati (Electronics Engineering Polytechnic Institute Of Surabaya, Indonesia); Riyanto Sigit and Tri Harsono (Politeknik Elektronika Negeri Surabaya, Indonesia)
09.45 - 10.00	1570579742	Designing of a Smart Collar for Dairy Cow Behavior Monitoring with Application Monitoring in Microservices and Internet of Things-Based Systems	Yogi Putra Pratama, Dwi Kurnia Basuki, Sritrusta Sukaridhoto and Alviansyah Arman Yusuf (Politeknik Elektronika Negeri Surabaya, Indonesia); Heri Yulianus (Politeknik Elektronika Negeri, Indonesia); Faruq Faruq (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Fariz Bramasta Putra (Politeknik Elektronika Negeri Surabaya, Indonesia)
10.00 - 10.15	1570579781	ArmChain - A Blockchain Based Sensor Data Communication For the Vehicle as a Mobile Sensor Network	Alviansyah Arman Yusuf, Dwi Kurnia Basuki, Sritrusta Sukaridhoto, Yogi Putra Pratama and Fariz Bramasta Putra (Politeknik Elektronika Negeri Surabaya, Indonesia); Heri

			Yulianus (Politeknik Elektronika Negeri, Indonesia)
10.15 -10.30	1570581357	Vision-Based Heart and Breath Rate Monitoring Using Skin Color and Motion	Muhammad Nasrullah and Anhar Risnumawan (Politeknik Elektronika Negeri Surabaya, Indonesia); Indra Adji Sulistijono (Politeknik Elektronika Negeri Surabaya (PENS) & Electronics Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia)
10.30 - 10.45	1570581556	Vending Machine Monitoring System Integrated with Webserver	Mohamad Walid Asyhari (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Riyanto Sigit and Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia)
10.45 - 11.00	1570583501	Development Of Web Based Application With Speech Recognition As English Learning Conversation Training Media	Dio Ekky Pratama (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Aliv Faizal Muhammad (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Akhmad Alimudin (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.00 - 11.15	1570583759	News Representative Generation using Automatic Clustering in Big Data Environment	Muhammad Alfian, Ali Ridho Barakbah and Muhammad Febrian Ardiansyah (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.15 - 11.30	1570583764	Brain Tumor Classification Using MRI Images With K-Nearest Neighbor Method	Rafi Haidar Ramdlon (Politeknik Elektronika Negeri Surabaya, Indonesia); Entin Martiana Kusumaningtyas (Politeknik Elektronika Negeri Surabaya(PENS)-Indonesia, Indonesia); Tita Karlita (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia)

**Session** : Parallel Session 02  
**Location** : Room 5 - Kahuripan Room  
**Moderator** : Dr. Achmad Basuki  
**Date** : Saturday, 28 September 2019  
**Track** : Intelligent Multimedia Systems  
**Topic** : IES-KCIC 4

Time	ID Paper	Title	Author(s)
09.00 - 09.15	1570570965	A Proposal of Entertainment and Performance Learning Assistant System for Seniors	Irin Tri Anggraini (Politeknik Elektronika Negeri Surabaya & Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Nobuo Funabiki (Okayama University, Japan); Achmad Basuki (Politeknik Elektronika Negeri Surabaya, Indonesia)
09.15 - 09.30	1570571047	An Emotional Distance Calculation for Recommending Musical Films in Kansei Space	Moeko Iijima, Yasushi Kiyoki and Shiori Sasaki (Keio University, Japan)
09.30 - 09.45	1570575506	Development of Education Game Web Hub for Parent Guidance Reference to the Children	Mohamad Saifrodin (PENS, Indonesia); Fahim Bagar and Danang Sugiarto (Politeknik Elektronika Negeri Surabaya, Indonesia)
09.45 - 10.00	1570575515	Battlebot: Logic Learning Based on Visual Programming Implementation in Multiplayer Game Online	Mohamad Saifrodin (PENS, Indonesia); Rizky Yuniar Hakkun and Bimaswara Adam Noval (Politeknik Elektronika Negeri Surabaya, Indonesia)
10.00 - 10.15	1570575820	Motion Modeling of Traditional Javanese Dance: Introduction of Javanese Dancer Gesture with 3D Models	Rosydina Afifah (Politeknik Elektronika Negeri Surabaya, Indonesia); Artiarini Nurindiyani (Lecturer & Politeknik Elektronika Negeri Surabaya, Indonesia); Dadet Pramadihanto (PENS, Indonesia)
10.15 - 10.30	1570575823	Development of Animatic Comic Website: the Lifestory of Pangeran Diponegoro	Abdi Prasetyo, Dwi Susanto and Hestiasari Rante (Politeknik Elektronika Negeri Surabaya, Indonesia)
10.30 - 10.45	1570575840	Design an MVC Model using Python for Flask Framework Development	Muhammad Mufid (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Indhi Rochimansyah and Abdul Rokhim (Akademi Komunitas Negeri Lamongan, Indonesia); Arif Basofi (Politeknik Elektronika

			Negeri Surabaya, Indonesia); M. Udin Harun Al Rasyid (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
10.45 - 11.00	1570575860	A Dialectic Approach in Montage Movie	Afifatul Azizah, Hestiasari Rante and Dwi Susanto (Politeknik Elektronika Negeri Surabaya, Indonesia)
11.00 - 11.15	1570576010	Fast Multi-scale Homomorphic Quotient Filtering for Night Time License Plates Illumination Invariant and Denoising	Igi Ardiyanto (Universitas Gadjah Mada & Faculty of Engineering, Indonesia); Muhammad Rizky Munggaran, Indra Nugraha, Martin Dominikus Tjandra and Randy Pangestu Kuswana (Nodeflux, Indonesia)
11.15 - 11.30	1570576012	Class Activation Mapping-Based Car Saliency Region and Detection for In-Vehicle Surveillance	Irfan Dwiki Bhaswara, Akmalazakia Fatan Derana Marsiano, Okta Fajar Suryani and Teguh Bharata Adji (Universitas Gadjah Mada, Indonesia); Igi Ardiyanto (Universitas Gadjah Mada & Faculty of Engineering, Indonesia)

**Session** : Parallel Session 03  
**Location** : Room 1 - Sriwijaya Room II  
**Moderator** : Dr. Riyanto Sigit  
**Date** : Saturday, 28 September 2019  
**Track** : Applied-Computing Sciences  
**Topic** : IES-KCIC 5

Time	ID Paper	Title	Author(s)
13.00 - 13.15	1570566877	Identification of Symptoms Based on Natural Language Processing (NLP) for Disease Diagnosis Based on International Classification of Diseases and Related Health Problems (ICD-11)	Fariz Bramasta Putra and Alviansyah Arman Yusuf (Politeknik Elektronika Negeri Surabaya, Indonesia); Heri Yulianus (Politeknik Elektronika Negeri, Indonesia); Yogi Putra Pratama (Politeknik Elektronika Negeri Surabaya, Indonesia); Dzakiyah Salma Humairra (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Urfiyatul Erifani (Electronic Engineering Polytechnic Institute of Surabaya & EEPIS, Indonesia); Dwi Kurnia Basuki and Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia); Rizqi Putri Nourma Budiarti (Universitas Nahdlatul Ulama Surabaya, Indonesia)
13.15 - 13.30	1570573094	A Cyber-Physical Learning Environment Design for Study Trajectory Creation	Yasuhiro Hayashi, Ryota Nakamura and Osamu Hasegawa (Musashino University, Japan); Yuichi Kitano (Fuji Television Network, Inc., Japan); Yasushi Kiyoki (Keio University, Japan)
13.30 - 13.45	1570575598	3D Visualization and Reconstruction of Lung Cancer Images using Marching Cubes Algorithm	Khairani Arlinda Mandaliana (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Tri Harsono and Riyanto Sigit (Politeknik Elektronika Negeri Surabaya, Indonesia)
13.45 - 14.00	1570575769	Automatic Segmentation of Heart Cavity in Echocardiography Images: Two & Four-Chamber View Using Iterative Process Method	Anwar and Riyanto Sigit (Politeknik Elektronika Negeri Surabaya, Indonesia); Achmad Basuki (Politeknik Elektronika Negeri Surabaya, Indonesia); I Putu Adi Surya Gunawan (Politeknik Elektronika Negeri Surabaya, Indonesia)

14.00 - 14.15	1570575791	Health Monitoring and Early Diseases Detection on Dairy Cow Based on Internet of Things and Intelligent System	Faruq and Iwan Syarif (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Ahmad Syauqi Ahsan (Politeknik Elektronika Negeri Surabaya & PENS, Indonesia); M. Udin Harun Al Rasyid (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Yogi Putra Pratama (Politeknik Elektronika Negeri Surabaya, Indonesia)
14.15 - 14.30	1570575959	Numerical Study on Heat Transfer and Friction Factor Characteristics of Transition Flow in Shell and Tube Heat Exchanger	Rifah Amalia, Arrad Ghani Safitra and Hakimatul Ubudiyah (Politeknik Elektronika Negeri Surabaya, Indonesia)
14.30 - 14.45	1570575990	LSTM With Adam Optimization-Powered High Accuracy Preeclampsia Classification	Muhlis Tahir (Politeknik Elektronika Negeri Surabaya, Indonesia); Tessa Badriyah (Electronic Engineering Polytechnic Institute of Surabaya, Indonesia); Iwan Syarif (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Nur sakinah S (Politeknik Elektronika Negeri Surabaya, Indonesia)

**Session** : Parallel Session 03  
**Location** : Room 2 - Daha Room  
**Moderator** : Ali Ridho Barakbah, Ph.D  
**Date** : Saturday, 28 September 2019  
**Track** : Computational Intelligence  
**Topic:** : IES-KCIC 6

Time	ID Paper	Title	Author(s)
13.00 - 13.15	1570579780	Human Detection and Tracking on Surveillance Video Footage Using Convolutional Neural Networks	Dima Maharika Dinama, Qurrota A'yun and Achmad Dahlan Syahroni (Politeknik Elektronika Negeri Surabaya, Indonesia); Indra Adji Sulistijono (Politeknik Elektronika Negeri Surabaya (PENS) & Electronics Engineering Polytechnic Institute of Surabaya (EEPIS), Indonesia); Anhar Risnumawan (Politeknik Elektronika Negeri Surabaya, Indonesia)
13.15 - 13.30	1570579785	Forecast Rainfall Data Time Series Using Multi-Attribute Long Short-Term Memory	Rafidah Atika, Arna Fariza and Ali Ridho Barakbah (Politeknik Elektronika Negeri Surabaya, Indonesia)
13.30 - 13.45	1570583258	Defining Network Switch Preference by Network Traffic Using Stable Marriage Problem	Akhmad Alimudin and Idris Winarno (Politeknik Elektronika Negeri Surabaya, Indonesia); Yoshiteru Ishida (Toyohashi University of Technology, Japan)
13.45 - 14.00	1570583715	Age Estimation System Using Deep Residual Network Classification Method	Arna Fariza and Muarifin M (Politeknik Elektronika Negeri Surabaya, Indonesia); Agus Z Arifin (Institut Teknologi Sepuluh Nopember, Indonesia)
14.00 - 14.15	1570583770	Pothole Visual Detection using Machine Learning Method integrated with Internet of Think Video Streaming Platform	Alfandino Rasyid, Mochammad Rifki Ulil Albaab, Muhammad Fajrul Falah, Yohanes Panduman, Alviansyah Arman Yusuf, Dwi Kurnia Basuki and Anang Tjahjono (Politeknik Elektronika Negeri Surabaya, Indonesia); Rizqi Putri Nourma Budiarti (Universitas Nahdlatul Ulama Surabaya, Indonesia); Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia); Firman Yudianto (Universitas Nahdlatul Ulama Surabaya, Indonesia); Hendro Wicaksono (Karlsruhe Institute of Technology)

**Session** : Parallel Session 03  
**Location** : Room 3 - Jenggala Room  
**Moderator** : M. Udin Harun Al Rasyid, Ph.D  
**Date** : Saturday, 28 September 2019  
**Track** : Knowledge Base and Engineering and Intelligent Multimedia Systems  
**Topic** : IES-KCIC 7

Time	ID Paper	Title	Author(s)
13.00 - 13.15	1570579380	Knowledge Based Chatbot with Context Recognition	Rico Arisandy Wijaya and Ali Ridho Barakbah (Politeknik Elektronika Negeri Surabaya, Indonesia); Entin Martiana Kusumaningtyas (Politeknik Elektronika Negeri Surabaya(PENS)-Indonesia, Indonesia)
13.15 - 13.30	1570583727	Detecting Hang on the Virtual Machine using LibVMI	Agus Priyo Utomo and Idris Winarno (Politeknik Elektronika Negeri Surabaya, Indonesia); Iwan Syarif (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia)
13.30 - 13.45	1570583795	Implementation QR Code Biometric Authentication for Online Payment	Agostinho Marques Ximenes (Instituto Superior Cristal, Timor-Leste); Sritrusta Sukaridhoto (Politeknik Elektronika Negeri Surabaya, Indonesia); Amang Sudarsono (Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Hasan Basri (Politeknik Negeri Fakfak, Indonesia); Muhammad Aksa Hidayat Yani (Politeknik Negeri Fakfak & Informatics Manajemen, Indonesia); Mochammad Rifki Ulil Albaab (Politeknik Elektronika Negeri Surabaya, Indonesia); Chew Chang Choon (Universiti Tun Hussein Onn Malaysia, Malaysia); Ezharul Islam (Computer Science and Engineering from Jahangirnagar University, Bangladesh)
13.45 - 14.00	1570583731	Creative Media for Cyberbullying Education	Syarifah Qonitatulhaq (Politeknik Elektronika Negeri Surabaya, Indonesia); Novita Astin (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia); Widi Sarinastiti (Electronic Engineering Polytechnic Institute of Technology, Indonesia)
14.00 - 14.15	1570574924	Point Mapping From 2D Face to 3D Face Using Linear Equation with Gauss Elimination	Hero Martono and Susi Harliani (Politeknik Elektronika Negeri Surabaya, Indonesia)