

ICAITI 2019

The 2019 International Conference on Applied Information Technology and Innovation

Parallel Session A: Electrical and Electronic Engineering

Location: room name

No	Time	ID Paper	Title	Author	Presenter
1	13.00 - 13.15	1570567070	Dirac Optical Materials for Low-Power All-Optical Plasmonic Devices	Kelvin J. A. Ooi (Xiamen University Malaysia Campus, Malaysia); Yee Sin Ang (, unknown); Qingwei Zhai (Xiamen University Malaysia Campus, Malaysia); Dawn Tan (SUTD, Singapore); Lay Kee Ang (SUTD, Malaysia); Chong Kim Ong (Xiamen University Malaysia Campus, Malaysia)	
2	13.15 - 13.30	1570568219	Low-Power CMOS Variable Gain Amplifier	Mohammad Arif Sobhan Bhuiyan (Xiamen University Malaysia, Malaysia)	
3	13.30 - 13.45	1570569610	SWIPT-Assisted Device-to-Device Communications Underlying a Cellular System	Hieu Van Nguyen, Hyeon Min Kim, Gil-Mo Kang, Yoan Shin and Oh-Soon Shin (Soongsil University, Korea)	
4	13.45 - 14.00	1570584506	Simulation Of Link Failure Handling in Jellyfish Topology on Software Defined Networks Using Floyd-Warshall and Johnson Algorithm	Muhammad Arief Nugroho (Telkom University, Indonesia); Andrian Rakhmatsyah (School of Computing - Telkom University, Indonesia)	
5	14.00 - 14.15	1570587007	Design of an Indoor Localization System based on WLAN for Assisting Victim's Evacuation Process	Viska Mutiawani, Kurnia Saputra and Amalia Masbar Rus (Syiah Kuala University, Indonesia)	
6	14.15 - 14.30	1570587441	Three-Phase Direct Matrix Converter with Space Vector Modulation for Induction Motor Drive	Era Purwanto (Electronic Engineering Polytechnic Institute Of Surabaya, Indonesia); Farid Dwi Murdianto and Dahried Wahyu Herlambang (Electronics Engineering Polytechnic Institute of	

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No	Time	ID Paper	Title	Author	Presenter
				Surabaya, Indonesia); Gamar Basuki (Electronic Engineering Polytechnic Institute of Surabaya & Jl. Raya-ITS Sukolilo, Surabaya, Indonesia); Mentari Putri Jati (Politeknik Elektronika Negeri Surabaya, Indonesia)	
7	14.30 - 14.45	1570587837	Implementation of Single Stage Converter (Z-Source Inverter) For Induction Motor Supply	Indra Ferdiansyah (Politeknik Elektronika Negeri Surabaya, Indonesia)	
8	14.45 - 15.00	1570588562	Depth Control Simulation of Autonomous Underwater Vehicle with Communication Delay	Nanang Syahrone (Politeknik Elektronika Negeri Surabaya, Indonesia)	
9	15.00 - 15.15	1570589016	Multi Agent Protocol for Cooperative Rear-end Collision Avoidance System	Noor Cholis Basjaruddin (Bandung Institute of Technology, Indonesia)	
10	15.15 - 15.30	1570589081	Design Of Single Phase Full bridge Inverter for Uninterruptible Power Supply (UPS)	Mahbub Muhammad(Electronics Engineering Polytechnic Institute of Surabaya, Indonesia);Indhana SudihartoandIndra Ferdiansyah(Politeknik Elektronika Negeri Surabaya, Indonesia)	
11	15.30 - 15.45	1570589085	Design of Battery Charging System as Supply of Rice Threshers In Tractor	Fandi Setiawan(Electronic Engineering Polytechnic Institute of Surabaya, Indonesia);Sutedjo SutedjoandIndra Ferdiansyah(Politeknik Elektronika Negeri Surabaya, Indonesia)	
12	15.45 - 16.00	1570589214	Movement Control of Two Wheels Balancing Robot using SMC based on Lyapunov Analysis	Syadza Atika Rahmah and Nurul Hasanah (Politeknik Elektronika Negeri Surabaya, Indonesia); Wulandari Puspita Sari (Electronic Engineering Polytechnic Institute of Surabaya & ER2C, Indonesia);	

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No	Time	ID Paper	Title	Author	Presenter
				Bambang Sumantri (Politeknik Elektronika Negeri Surabaya, Indonesia); Alrijadjis Alrijadjis (Electronic Engineering Polytechnic Institute of Surabaya (EEPIS) & Politeknik Elektronika Negeri Surabaya (PENS), Indonesia); Ni'am Tamami (Politeknik Elektronika Negeri Surabaya, Indonesia)	
13	16.00 - 16.15	1570589829	An Unorthodox Way of Farming Without Intermediaries Through Blockchain	Shovon Paul, Jubair Islam Joy, Sharif Ahmed and Shaila Sarker (East West University, Bangladesh); Amit Kumar Das (University of Dhaka, Bangladesh); Abdullah Al Haris Shakib (East West University, Bangladesh)	
14	16.15 - 16.30	1570589837	Security Concerns of Ridesharing Services in Bangladesh	Shamse Tasnim Cynthia, Moname Majumder, Anika Tabassum and Nazmun Nahar Khanom (East West University, Bangladesh); Rashedul Tuhin (Universiti Technology Malaysia, Malaysia); Amit Kumar Das (University of Dhaka, Bangladesh)	
15	16.30 - 16.45	1570589889	LACP Experiment using Multiple Flow Table in Ryu SDN Controller	Farid Baskoro (Universitas Gadjah Mada, Indonesia); Risanuri Hidayat and Sigit Basuki Wibowo (Gadjah Mada University, Indonesia)	
16	16.45 - 17.00	1570589926	An Overview of Smart Contract: Use Cases, Technological and Legal Issues	Rakib Ahmed, Nurunnahar Smrity and Anamika Das Mou (East West University, Bangladesh); Rashedul Tuhin (Universiti Technology Malaysia, Malaysia); Amit Kumar Das (University of	

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No	Time	ID Paper	Title	Author	Presenter
				Dhaka, Bangladesh)	
17	17.00- 17.15	1570589948	Separation of acoustic signals on a compressor using FastICA	Anindita Adikaputri Vinaya(Universitas Internasional Semen Indonesia, Indonesia)	
18	17.15- 17.30	1570591826	Performace Analysis of Simple Capacitive Cylinder Sensor for Measuring Soil Moisture Content	Radi Radi(Universitas Gadjah Mada, Indonesia)	
19	17.30- 17.45	1570581925	Measurement of Stain Area in Metal Surface with Particle Analysis	Riandini (Politeknik Negeri Jakarta, Indonesia)	

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Parallel Session B: Artificial Intelligents

Location: Room Name

No	Time	ID Paper	Title	Author	Presenter
1	13.00 - 13.15	1570563809	DDoS Detection on Network Protocol Using Neural Network with Feature Extract Optimization	Andi Maslan (Universitas Putera Batam, Indonesia)	
2	13.15 - 13.30	1570569671	Prediction of Semantically Correct Bangla Words Using Stupid Backoff and Word-Embedding Model	Tanni Mitra and Linta Islam (East West University, Bangladesh); Deepak Roy (Dhaka Power Distribution Company Limited, Bangladesh)	
3	13.30 - 13.45	1570569714	Priority Path for Mutant Repairs on Mutation Testing	Sasa Ani Arnomo (Universiti Tun Hussein Onn Malaysia (UTHM), Indonesia); Noraini Ibrahim (Universiti Tun Husain Onn Malaysia, Malaysia)	
4	13.45 - 14.00	1570570856	Participatory Heuristic Evaluations of Jeliot Mobile: End-users evaluating usability of their mlearning application	Muhammad Mustafa Hassan (University of Eastern Finland, Finland)	
5	14.00 - 14.15	1570577291	Hybrid Genetic Algorithm for Density-Based Data Clustering	Md Sharif Khan, Shakera Chowdhury Ava, Iffat Zerine and Mozammel Khan (East West University, Bangladesh)	
6	14.15 - 14.30	1570584246	Comparative Study on Handwriting Recognition by Machine Learning	Anupam Sharma (Thapar University, India)	
7	14.30 - 14.45	1570587846	Optimization of Genetic Algorithms on Backpropagation Neural Network to Predict National Rice Production Levels	Aditya Wisnugraha Sugiyarto, Achmad Rasjawa and Novia Hendiyani (Universitas Negeri Yogyakarta, Indonesia); Dhoriva Urwatul Wutsqa	

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No	Time	ID Paper	Title	Author	Presenter
				(Yogyakarta State University & Faculty of Mathematics and Natural Sciences, Indonesia)	
8	14.45 - 15.00	1570588496	Ultra Step Up Converter Using Fuzzy Sugeno on HVDC Application	Era Purwanto (Electronic Engineering Polytechnic Institute Of Surabaya, Indonesia); Arman Jaya, Farid Dwi Murdianto and Ardiansyah Rachmatdianto (Electronics Engineering Polytechnic Institute of Surabaya, Indonesia)	
9	15.00 - 15.15	1570589024	Implementation of Maximum Power Point Tracking on Solar Panels using Cuckoo Search Algorithm Method	Alvin Noer Ramadhan(Electronic Engineering Polytechnic Institute of Surabaya & Indonesia, Indonesia);Sutedjo SutedjoandIndra Ferdiansyah(Politeknik Elektronika Negeri Surabaya, Indonesia)	
10	15.15 - 15.30	1570589567	Classification of Segmented Milkfish Eyes using Cosine K-Nearest Neighbor	Eko PrasetyoandR. Dimas Adityo(University of Bhayangkara Surabaya, Indonesia);Rani Purbaningtyas(Bhayangkara University of Surabaya, Indonesia)	
11	15.30 - 15.45	1570589855	Bangla word prediction and sentence completion using GRU: an extended version of RNN on n-gram language model	Omor Faruk Rakib,Shahinur AkterandMd Azim Khan(East West University, Bangladesh);Amit Kumar Das(University of Dhaka, Bangladesh);Khan Mohammad Habibullah(East West University, Bangladesh)	

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No	Time	ID Paper	Title	Author	Presenter
12	15.45 - 16.00	1570589856	Automated Detection of Plant Diseases Using Image Processing and Faster R-CNN Algorithm	Shamse Tasnim Cynthia,Kazi Md. Shahrukh Hossain,Md. Nazmul HasanandMd. Asaduzzaman(East West University, Bangladesh);Amit Kumar Das(University of Dhaka, Bangladesh);Omor Faruk Rakib(East West University, Bangladesh)	
13	16.00 - 16.15	1570590170	An intelligent approach for English word prediction using Deep Neural Network	Shahinur Akter,Omor Faruk RakibandMd Azim Khan(East West University, Bangladesh);Amit Kumar Das(University of Dhaka, Bangladesh)	
14	16.15 - 16.30	1570590540	Hyper-parameter Determination of CNN Classifier for Head Pose Estimation of Three Dimensional Degraded Face Images	Benyamin Kusumoputro,Akhmad FaqihandRandy Pangestu Kuswana(Universitas Indonesia, Indonesia)	
15	16.30 - 16.45	1570590548	A Comprehensive Study of Machine Learning algorithms for Predicting Car Purchase Based on Customers Demands	Protap Kumar Saha,Anamika Das MouandTanni Mittra(East West University, Bangladesh)	
16	16.45- 17.00	1570590791	Detecting Distributed Denial of Service Attack using Logistic Regression and SVM Methods	Mohammad Arafat Ullah,Arthy JamalandRashedul Amin Tuhin(East West University, Bangladesh);Md. Shamim Akhter(International University of Business Agriculture and Technology (IUBAT), Bangladesh)	
17	17.00- 17.15	1570590876	Robustness Analysis of PI controller to Optimizing the output power for Energy Management in DC Microgrid System	Farid Dwi Murdianto(Electronics Engineering Polytechnic Institute of Surabaya, Indonesia);Indhana Sudiharto(Politeknik Elektronika Negeri Surabaya, Indonesia)	

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No	Time	ID Paper	Title	Author	Presenter
18	17.15- 17.30	1570591882	Designing Mamdani Fuzzy Inference Systems For Decision Support Systems	Humaira Humaira,Rasyidah RasyidahandIndri Rahmayuni(Politeknik Negeri Padang, Indonesia)	

Parallel Session C: Information Systems

Location: room name

No	Time	ID Paper	Title	Author	Presenter
1	13.00 - 13.15	1570579398	Master Data Management Maturity Assessment: Case Study of XYZ Company	Achmad Hidayanto (University of Indonesia, Indonesia); Putu Wuri Handayani (Universitas Indonesia, Indonesia); Nabila Clydea Harahap (University of Indonesia, Indonesia)	
2	13.15 - 13.30	1570589639	Sales Data Monitoring Systems Telkom Indonesia Witel Samarinda Field Business Goverment and Enterprise	Andi Tejawati,Muhammad Firdaus,Sugesty Aditya,Edy BudimanandMasna Wati(Universitas Mulawarman, Indonesia);Medi Taruk(Mulawarman University, Indonesia)	
3	13.30 - 13.45	1570586041	The Evaluation of Finance Modul Impact Of Enterprise Resource Planning (ERP) for Employee Ferformance	Deden Witarsyah and Muhardi Saputra (Telkom University, Indonesia); Marheni Saputri (University of Telkom, Indonesia)	

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No	Time	ID Paper	Title	Author	Presenter
4	13.45 - 14.00	1570579971	Prediction of Indonesia Presidential Election Results for the 2019-2024 Period Using Twitter Sentiment Analysis	Dinar Ajeng Kristiyanti and Normah Normah (STMIK Nusa Mandiri, Indonesia); Akhmad Hairul Umam (Tanri Abeng University, Indonesia)	
5	14.00 - 14.15	1570589091	Design of Electronic Medical Record Security Policy on Hospital Management Information System (SIMRS) on XYZ Hospital	Dion OgiandHana Avianto(Sekolah Tinggi Sandi Negara, Indonesia)	
6	14.15 - 14.30	1570569515	A Variable Sampling Interval Run Sum Chart for the Mean with Auxiliary Information	Faijun Nahar Mim (Universiti Sains Malaysia, Malaysia); Sajal Saha (International University of Business Agriculture and Technology, Bangladesh); Michael Khoo Boon Chong (Universiti Sains Malaysia, Malaysia)	
7	14.30 - 14.45	1570588475	Integrating Nagari Information In West Sumatera With Laravel Framework	Hidra Amnur, Yance Sonatha and Rasyidah Rasyidah (Politeknik Negeri Padang, Indonesia)	
8	14.45 - 15.00	1570589859	Software piracy:Factors and Profiling	Jahidul Hoque,Afsana HossainandNishat Tasnim Mim(East West University, Bangladesh);Rashedul Tuhin(Universiti Technology Malaysia, Malaysia);Amit Kumar Das(University of Dhaka, Bangladesh), Jahidul Hoque	
9	15.00 - 15.15	1570587201	Content-based Image Retrieval System for Locating Building in Syiah Kuala University Using Android Platform	Kurnia Saputra, Nazaruddin Nazaruddin and Amalia Masbar Rus (Syiah Kuala University, Indonesia)	
10	15.15 - 15.30	1570589833	Impact of Social Media on Socialization of University Students (A study on East West University's Undergraduate Students)	Maliha Hassan,Anik SahaandNujat Saba(East West University, Bangladesh);Rashedul Tuhin(Universiti Technology Malaysia, Malaysia);Amit	

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No	Time	ID Paper	Title	Author	Presenter
				Kumar Das(University of Dhaka, Bangladesh)	
11	15.30 - 15.45	1570590063	Hotel Room Price Determination Based on Dynamic Pricing Model Using Nonlinear Programming Method to Maximize Revenue	Muhammad Fadly,Ari Yanuar RidwanandMohammad Akbar(Telkom University, Indonesia)	
12	15.45 - 16.00	1570574282	Analysis of the Effect of Quality Mulawarman University Language Center websites on User Satisfaction Using the Webqual 4.0 Method	Muhammad Firdaus, Novianti Puspitasari, Edy Budiman, Joan Angelina Widians and Nur Bayti (Universitas Mulawarman, Indonesia)	
13	16.00 - 16.15	1570591824	Potency of Image Color & Textural Feature for Granular Size Estimation of Ground Coffee	Radi Radi(Universitas Gadjah Mada, Indonesia)	
14	16.15 - 16.30	1570590193	A Simulation of Enhanced Oil Recovery of Surfactant Flooding Using Sodium Lignosulfonate by CMG-STARs	Rifqa Rahmandhani Sukmana(Universitas Gadjah Mada, Indonesia)	
15	16.30 - 16.45	1570589934	Digital Governance for Pension withdrawal System in Bangladesh	Sumiya Akter Nisher,Mohammad Hemayet Ullah,Shamima SultanaandMd. Shahad Iqbal(East West University, Bangladesh);Rashedul Tuhin(Universiti Technology Malaysia, Malaysia);Amit Kumar Das(University of Dhaka, Bangladesh)	
16	16.45- 17.00	1570590149	A Behavioral Model of Music piracy in Bangladesh: Factors influencing music piracy	Syed Sahariar Hassan,Fatema Nihar,Md Washim RazuandMaimuna Rahman(East West University, Bangladesh);Rashedul Tuhin(Universiti Technology Malaysia, Malaysia);Amit Kumar Das(University of Dhaka, Bangladesh)	

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No	Time	ID Paper	Title	Author	Presenter
17	17.00- 17.15	1570588646	The State of the Art in e-Tendering Technology and Implementation	Syifa Nurgaida Yutia (Institut Teknologi Bandung, Indonesia)	
18	17.15- 17.30	1570588795	e-Vent: Support System for Event Registration	Yohanes Priadi Wibisono, Clara Hetty Primasari and Alwi Kesuma (Universitas Atma Jaya Yogyakarta, Indonesia)	

Parallel Session D: Computer Engineering

Location: room name

No	Time	ID Paper	Title	Author	Presenter
1	15.00 - 15.15	1570588405	An Analysis on Python Programming Language Demand and its Recent Trend in Bangladesh	Aaquib Javed (North South University Bangladesh, Bangladesh); Monika Zaman and Tasnova Nusrat (North South University, Bangladesh)	
2	15.15 - 15.30	1570576333	Performance Evaluation of MongoDB, Cassandra and HBase for heterogenous IoT Data Storage	Dany P Kartikasari, Eko Sakti Pramukantoro and Reza Siregar (Brawijaya University, Indonesia)	
3	15.30 - 15.45	1570588039	Implementation of Hybrid Password Authentication Scheme Based on Shape-Text on Raspberry Pi as a Client-Server-Based Access Control System to Overcome Shoulder Surfing Attack	Dion Ogi and Alfian Anto (Sekolah Tinggi Sandi Negara, Indonesia)	

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No	Time	ID Paper	Title	Author	Presenter
4	15.45 - 16.00	1570583652	IOS Mobile APP for Tuberculosis detection Based on Chest X-Ray Image	Hendrick Hendrick (National Kaohsiung University of Applied Sciences, Indonesia)	
5	16.00 - 16.15	1570589830	HELLO: An Android-based Mobile Application for Autism Individuals to Improve Socio-Communicational Learnability in Bangladesh	Ishrat Jahan YraandMd. Maksud Hossain(East West University, Bangladesh);Amit Kumar Das(University of Dhaka, Bangladesh)	
6	16.15 - 16.30	1570588859	Crowdsourced Transport Management System for Smartphone Users	Md. Sohel Rana,Md. Jakir Hosen,Abdullah Al Noman,Linta IslamandTanni Mittra(East West University, Bangladesh)	
7	16.30 - 16.45	1570590346	Performance Evaluation of Hybrid Electric Propulsion System for AUVs with Simulation Results	Nanang Syahroni(Politeknik Elektronika Negeri Surabaya, Indonesia)	
8	16.45 - 17.00	1570589853	Impact and Awareness of Excessive Gaming on Academic performance and social life of University Students	Protap Kumar Saha,Iftekhah Ahmed,Md. Touhidul IslamandPriom Bhowmik(East West University, Bangladesh);Rashedul Tuhin(Universiti Technology Malaysia, Malaysia);Amit Kumar Das(University of Dhaka, Bangladesh)	
9	17.00 - 17.15	1570569509	Side Sensitive Group Runs t Control Chart	Sajal Saha (International University of Business Agriculture and Technology); Fajjun Nahar Mim and Michael Khoo Boon Chong (Universiti Sains Malaysia, Malaysia)	
10	17.15 - 17.30	1570590148	Image Fusion-based Multi-frequency Microwave Tomography	Sebastian Siburian,Sastra Kusuma WijayaandPrawito Prajitno(Universitas Indonesia, Indonesia)	

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