

## GENERAL PROGRAM

<b>Day 1: 26 September 2017</b>	<b>Time (UTC+8)</b>	<b>Place</b>
Registration: conference kit collection, tour registration, presentation file submission	14.00 – 16.00	Conference Venue
<i>End of Day 1</i>		
<b>Day 2: 27 September 2017</b>		
Late Registration: conference kit collection, tour registration, presentation file submission	08.00 – 09.30	Conference Venue
Opening Ceremony	09.30 – 09.35	Ballroom
Plenary Session <b>Prof. Rajkumar Buyya:</b> " New Frontiers In Cloud Computing For Big Data And Internet-of-Things (IoT) Applications" <b>Prof. Shueng-Han Gary Chan:</b> "Indoor localization and People Sensing for Smart Space"	09.35 – 12.00	Ballroom
Photo Session	12.00 – 12.30	Ballroom
Lunch	12.30 – 13.30	Restaurant
Parallel Session 1	13.30 – 15.00	Room 1, 2
Coffee Break	15.00 – 15.30	
Parallel Session 2	15.30 – 17.00	Room 1, 2
Gala Dinner	19.00 – 21.00	Restaurant
<i>End of Day 2</i>		
<b>Day 3: 28 September 2017</b>		
Late Registration: conference kit collection, tour registration, presentation file submission	08.00 – 09.00	Conference venue
<b>Workshop on “Duckietown Project: Platform for Learning Autonomous Robotic Car”</b> by Timotius Victorio Yasin, Electrical Engineering Department, NCTU Taiwan	09.00 – 10.15	Ballroom
Coffee Break	10.15 – 10.30	
Panel Discussion: Oracle, Tokopedia, Catalyst	10.30 – 12.30	Ballroom
Lunch	12.30 – 13.30	Restaurant
Parallel Session 3	13.30 – 15.00	Room 1, 2
Coffee Break	15.00 – 15.30	
Parallel Session 4	15.30 – 17.00	Room 1, 2, 3
Closing Ceremony ( Doorprize + Best Paper Award)	17.00 – 18.00	Ballroom
<i>End of Day 3</i>		
<b>Day 4: 29 September 2017</b>		
Tour (Optional, additional charge applies. Technical informations to be announced)	08.00 – 16.00	TBA
<i>End of Day 4</i>		

## PARALLEL SESSION

# TRACK: ELECTRICAL & ELECTRONICS

### Parallel Session 1

**Date : September 27, 2017**

**Room : 2**

**Time : 13.30 - 15.00 WITA (UTC + 8)**

**Session Chair: Peter Plagemann**

Time	ID	Title	Author(s)
13.30 - 13.45	3	Corrosion Protection of Offshore Wind Energy Constructions in Germany - Challenges and Approaches	Peter Plagemann, Andreas Momber
13.45 - 14.00	59	A Comparison of Real Time Extraction between Chebyshev and Butterworth Method for SSVEP Brain Signals	Dwi Esti Kusumandari, Arjon Turnip
14.00 - 14.15	31	Improvement of Voltage Stability due to Integration of the Celukan Bawang Power Station to the Bali 16-bus System	Ni Putu Agustini, I Made Wartana
14.15 - 14.30	63	Modeling of Energy Production of Sengguruh Hydropower Plant Using Neuro Fuzzy Network	Daniel Rohi
14.30 - 14.45	77	3D Simulator Design using Discrete-Multi-Piston Actuators	Roche Alimin, Felix Pasila
14.45 - 15.00	38	Implementation of Mamdani and Sugeno Method for Load Forecasting: A Case Study of Malang City	Yusuf Ismail Nakhoda, Ni Putu Agustini, Ikhzanul Bagus Ariyanto, Abraham Lomi

### Parallel Session 2

**Date : September 27, 2017**

**Room : 2**

**Time : 15.30 - 17.15 WITA (UTC + 8)**

**Session Chair: Abraham Lomi**

Time	ID	Title	Author(s)
15.30 - 15.45	10	Optimum Allocation of Reactive Power Sources for Voltage Stability Improvement and Loss Minimization in Power Distribution Systems	Abraham Lomi, F. Yudi Limpraptono
15.45 - 16.00	28	Indonesian Batik Image Classification Using Statistical Texture Feature Extraction Gray Level Co-occurrence Matrix (GLCM) and Learning Vector Quantization (LVQ)	Nafik'ah Yunari, Eko Mulyanto Yuniarno, Mauridhi Hery Purnomo
16.00 - 16.15	12	OBD-2 (On Board Diagnostic 2) Based Vehicle Management Over GPRS (General Packet Radio Service) Wireless Network for Fleet Monitoring and Fleet Maintenance Management	Hartono Pranjoto, Lanny Agustine, Mimi Merediththa
16.15 - 16.30	33	Remote Spectrum Analyzer based on Web Software Defined Radio for Use in Telecommunication Engineering Remote Laboratory	F Yudi Limpraptono, Eko Nurcahyo
16.30 - 16.45	17	Design of Monitoring Tool Heartbeat Rate and Human Body Temperature Based on WEB	Jalinas, Wahyu Kusuma R., Bobby Putra E.W
16.45 - 17.00	71	Forward/Inverse Kinematic Simulator Software Using Unity Engine	Handry Khoswanto
17.00 - 17.15	34	Web-GIS Application using Multi-Attribute Utility Theory to Classify Accident-Prone Roads	Anik Vega Vitianingsih, Dwi Cahyono, Achmad Choiron

### Parallel Session 3

**Date : September 28, 2017**

**Room : 2**

**Time : 13:00 – 15:00 WITA (UTC + 8)**

**Session Chair: Surya Hermawan**

Time	ID	Title	Author(s)
13.30 - 13.45	69	High Spatial Grid Resolution of Hydrodynamic Numerical Modeling for Sea Current Energy Site Selection in Indonesia	Surya Hermawan, H. Gunawan
13.45 - 14.00	27	Prototype of Demand Response Controller for Demand Side Management on Home Electricity using Particle Swarm Optimization Algorithm	Djoni Haryadi Setiabudi, Michael Santoso, Iwan Njoto Sandjaja, Yusak Tanoto
14.00 - 14.15	22	Human Arm Movement Detection Using Low Cost Sensors for Controlling Robotic Arm	Aryunto Soetedjo, I.K. Somawirata, A. Irawan
14.15 - 14.30	64	Performance of Reservoir Hydroelectric Power Plants in Indonesia: A Case Study of Sutami Hydropower Plant	Daniel Rohi
14.30 - 14.45	21	Study of Static Under Frequency Load Shedding on IEEE 3 Generator 9 Bus System Caused of Transient Condition	Irrine Budi Sulistiawati, Aga Dia Priasmoro, Abraham Lomi, Ardyono Priyadi, Ibrahim Azhari
14.45 - 15.00	52	A Preliminary Study of Technical Feasibility for Mobile Phone Remanufacturing in Indonesia	Yopi Y. Tanoto, Shu-San Gan, Didik Wahjudi, Juliana Anggono

### Parallel Session 4

**Date : September 28, 2017**

**Room : 2**

**Time : 15:30 - 17.15 WITA (UTC + 8)**

**Session Chair : Irrine Budi Sulistiawati Rusilawati**

Time	ID	Title	Author(s)
15.30 - 15.45	48	Determination of Generator Steady State Stability Limit for Multi-machine System Based on Network Losses Concept	Irrine Budi Sulistiawati Rusilawati, Adi Soeprijanto, Rony Seto Wibowo
15.45 - 16.00	67	Investigation of Voltage Quality in Cement Industry in Indonesia: Case Study of PT Semen Kupang	Julius Setiadji, Daniel Rohi, Yoanne Flantine Mozes
16.00 - 16.15	68	The Benefit of Decision Support System as Sustainable Environment Technology to Utilize Coastal Abundant Resources in Indonesia	Surya Hermawan
16.15 - 16.30	70	Brain Computer Interface for Controlling RC Car Using EEG Emotiv Epoc+	Thomas Setiono, Andreas Handoyo, Rolly Intan, Widodo Budiharto, Resmana Lim
16.30 - 16.45	78	Understanding a Deep Learning Technique Through a Neuromorphic System	Indar Sugiarto, Felix Pasila
16.45 - 17.00	79	IoT-Based Car's Parking Monitoring System	Albertus Ega Dwiputra, Handry Khoswanto, Resmana Lim
17.00 - 17.15	15	Emotion Recognition using cvxEDA-based Features	Hany Ferdinando, E. Alasaarela

## PARALLEL SESSION

# TRACK: INFORMATION TECHNOLOGY

### Parallel Session 1

**Date** : September 27, 2017

**Room** : 1

**Time** : 13.30 - 15.00 WITA (UTC + 8)

**Session Chair** : Mohamad Khairi Ishak

Time	ID	Title	Author(s)
13.30 - 13.45	9	Design of Robotic Arm Controller based on Internet of Things (IoT)	Mohamad Khairi Ishak, Muhammad Izzat Roslan
13.45 - 14.00	20	Hybrid PROPHET-Epidemic Routing Protocol for Optimizing Possibility of Sending Messages in Remote Fishermen Residential Area	FX Ariwibisono, Achmad Basuki, Fatwa Ramdani
14.00 - 14.15	8	Information System Strategic Planning for Department of Housing and Settlement Region in The Jakarta Provincial Government	Jarot S. Suroso, Harisno, Tuga Mauritsius, Agung Setyawan
14.15 - 14.30	24	Information Systems Adoption among SMEs in Developing Country: The Case of Gerbang Kertausila	Trianggoro Wiradinata
14.30 - 14.45	43	Geographic Information Retrieval Using Query Aware Document Ranking Method Case Study for Surakarta	Steven Tionardi, Viny Christanti Mawardi, Ery Dewayani
14.45 - 15.00	23	WebGIS Application of Geospatial Technology for Tourist Destination in Malang	Dafid Bayu Firmansya, Fatwa Ramdani, Herman Tolle

### Parallel Session 2

**Date** : September 27, 2017

**Room** : 1

**Time** : 15.30 - 17.15 WITA (UTC + 8)

**Session Chair** : Boonchoo Jitnupong

Time	ID	Title	Author(s)
15.30 - 15.45	26	Information System User Interface Design in Software Services Organization: A Small-Clan Case Study	Boonchoo Jitnupong, W. Jiracheifpattana
15.45 - 16.00	25	Design and Development of RunForFun Mobile Application	Anthony Anci, Trianggoro Wiradinata
16.00 - 16.15	39	Data Mining Application using Association Rule Mining ECLAT Algorithm based on SPMF	Jason Reynaldo, David Boy Tonara
16.15 - 16.30	44	Spelling Correction For Text Documents In Bahasa Using Finite State Automata And Levenshtein Distance Method	Viny Christanti Mawardi, Niko Susanto, Dali S. Naga
16.30 - 16.45	62	Call for Paper Information Broadcast Based on Android Application	Fenny Destasia Chan, Andreas Handojo, Hanny Tabita Listyani, Ivan Aldinata, Felicia
16.45 - 17.00	47	RFID and IoT for Attendance Monitoring System	Joseph Irawan
17.00 - 17.15	76	Saving Matrix Method for Efficient Distribution Route Based on Google Maps API	Timothy John Pattiasina, Eddy Triswanto Setyoadi, David Wijayanto

### Parallel Session 3

**Date : September 28, 2017**

**Room : 1**

**Time : 13.30 - 15.00 WITA (UTC + 8)**

**Session Chair : Hartono Pranjoto**

Time	ID	Title	Author(s)
13.30 - 13.45	60	Comparative Analysis of Thresholding Methods in Cancer Cells Image Processing	Daniel Martomanggolo Wonohadidjojo
13.45 - 14.00	66	Congestion Mitigation Scenario through Public Transportation Improvement	E.Suryani, R.A.Hendrawan, P. F. E. Adipraja, L.P.Dewi
14.00 - 14.15	7	Feasibility Study for the Detection of Leave Disease Using Fiber Based Imaging System	Ruchire Eranga Wijesinghea, Seung-Yeol Lee, Naresh Kumar Ravichandrana, Muhammad Faizan Shirazia, Deokmin Jeon, Daeyoung Choi, Oeon Kwon, Jaewon Song, Changseok Kim, Jin-Seok Bae, Hee-Young Jung, Mansik Jeon, Jeehyun Kim
14.15 - 14.30	18	Forecasting System Approach for Stock Trading with Relative Strength Index and Moving Average Indicator	Yulius Hari, Lily Puspa Dewi
14.30 - 14.45	46	Uniform and Non-Uniform Image Enlargement Based on the Window Kernel	I K. Somawirata, Teguh Herbasuki, Bambang Prio H., Aryuato Soetedjo
14.45 - 15.00	37	The Development of System Dynamics Model to Increase National Sugar Fulfillment Ratio	E. Suryani, R.A. Hendrawan, E.Taufik, I. Muhandhis, L.P. Dewi

### Parallel Session 4

**Date : September 28, 2017**

**Room : 1**

**Time : 15.30 - 17.15 WITA (UTC + 8)**

**Session Chair : Kanyanut Homsapaya**

Time	ID	Title	Author(s)
15.30 - 15.45	53	Modified Floating Search Feature Selection Based on a Genetic Algorithm	Kanyanut Homsapaya, Ohm Sornil
15.45 - 16.00	55	An Extended Fuzzy Neural Network and Backtracking Algorithm for Improving of Image Classification	Abdul Haris Rangkuti Muhammad Fahri
16.00 - 16.15	45	Automatic Essay Scoring in E-learning System Using LSA Method with N-Gram Feature for Bahasa	Rico Setiadi Citawan, Viny Christanti Mawardi, Bagus Mulyawan
16.15 - 16.30	58	Enhancing Students' Technopreneurship Projects with Mobile Collaboration and Communication Application	Stephanus Eko Wahyudi, Kartika Gianina Tileng, Ian Budi Kurniawan
16.30 - 16.45	49	Design and Bandwidth Optimization on Triangle Patch Microstrip Antenna for WLAN 2.4 GHz	Sotyohadi, Riken Afandi, Dony Rachmad Hadi
16.45 - 17.00	61	Cloud Computing Point of Sales Development for Indonesia Small Medium Enterprise	Adi Suryaputra Paramita, Trianggoro Wiradinata
17.00 - 17.15	75	Surabaya Tourism Destination Recommendation Using Fuzzy C-Means Algorithm	Raymond Sutjiadi, Adriel Giovanni Budihardjo, Edwin Meinardi Trianto

## TRACK: ELECTRICAL & ELECTRONICS and INFORMATION TECHNOLOGY

### Parallel Session 4

**Date** : September 28, 2017

**Room** : 3

**Time** : 15.30 - 17.00 WITA (UTC + 8)

**Session Chair** : Yanatra Budi Pramana

Time	ID	Title	Author(s)
15.30 - 15.45	50	Electrolysis Synthesis and Characterization Properties of Nickel Oxide Nanoparticle	Yanatra Budi Pramana, Yunia Dwie Nurcahyanie, Muhamad Abdul Jumali, Rhenny Ratnawati, Sugito
15.45 - 16.00	57	Green Industrial System in Indonesia	Fourry Handoko, Ellysa Nursanti, Gatot, Lalu Mulyadi, Julianus Hutabarat, Kustamar, Martinus Edwin Tjahjadi
16.00 - 16.15	73	A Study of Mobile Robot Control Using EEG Emotiv Epoch Sensor	Timotius Victorio Yasin, Felix Pasila, Resmana Lim
16.15 - 16.30	14	Modified Welch Berlekamp Algorithm to Decode Reed Solomon Codes	Ali Mahmudi, Sentot Achmadi, Michael Ardita
16.30 - 16.45	72	Web-based Robotics Laboratory	Petrus Santoso, Handry Khoswanto, Iwan Njoto Sandjaja
16.45 - 17.00	74	Indonesian Stock Prediction using Support Vector Machine	Murtiyanto Santoso, Raymond Sutjiadi, Resmana Lim