

5TH ICEVT 2018 SCHEDULE**Tuesday, Oct 30, 2018 (ICEVT Day 1)**

Time	Activity
08:00 – 08:30	Registration
08:30 – 08:40	Opening by MC
08:40 – 08:50	Welcoming Speech <ul style="list-style-type: none">• Prof. Pekik A. Dahono <i>General Chairman of the Conference (ICPERE-ICEVT)</i>• Prof. Dr. Ravik Karsidi <i>Rector of Universitas Sebelas Maret</i>
08:50 – 09:00	Opening Speech <ul style="list-style-type: none">• Thomas Crehan <i>Education Office Director, USAID Indonesia</i>• Dr. Jaka Sembiring <i>Dean of School of Electrical Engineering and Informatics, Institut Teknologi Bandung</i>
09:00 – 09:30	Keynote Speech 1 Dr. Hubert Friedl <i>Senior Product Manager, Gasoline Engine Power System, AVL Austria</i>
09:30 – 10:00	Keynote Speech 2 Eddie Widiono, M.Sc. <i>Founder, Indonesia Smart Grid Initiative (PJCI)</i>
10:00 – 10:30	Coffee Break
10:30 – 11:00	Keynote Speech 3 Yui Hastoro Sapardyanto <i>Director, PT. Toyota Motor Manufacturing Indonesia</i>
11:00 – 11:30	Keynote Speech 4

	<p>Dr. Sigit Puji Santosa</p> <p><i>Director, National Center for Sustainable Transportation Technology, Indonesia</i></p>
11:30 – 12:00	<p>Keynote Speech 5</p> <p>Tokunosuke Ito, Ph.D.</p> <p><i>Founder, President & CEO Toku Industry Inc., Fuji Electric Company, Ltd</i></p>
12.00 – 12.30	<p>Keynote Speech 6</p> <p>Thomas Suhartanto</p> <p><i>Principal Oil and Gas Research, PT. Pertamina (Persero)</i></p>
12:30 – 13:30	<p>Lunch Break</p>
13:30 – 15:00	<p>Parallel Session I</p>
15:00 – 15:30	<p>Coffee Break</p>
15:30 – 17:15	<p>Parallel Session II</p>
19:00 – 21:00	<p>Banquet – Gala Dinner</p> <p>Opening Speech:</p> <p>Dr. Agus Purwadi</p> <p><i>General Chairman of the Conference (ICEVT-ICPERE)</i></p>

Wednesday, Oct 31, 2018 (ICEVT Day 2)

Time	Activity
07.30 – 08.00	Registration
08.00 – 08.30	Keynote Speech 7 Dr. Eng. Agus Purwanto <i>Department of Chemical Engineering, University of Sebelas Maret, Indonesia</i>
08.30 – 09:00	Keynote Speech 8 Dr. Andy Noorsaman Sommeng, DEA <i>Directorate General of Electricity, Ministry of Energy and Mineral Resources (ESDM)</i>
09:00 – 09:30	Keynote Speech 9 Amir Rosidin <i>Director of Central Java Regional Business, PT. PLN (Persero)</i>
09:30 – 10:00	Coffee Break
10:00 – 10:30	Keynote Speech 10 Polana B. Pramesthi <i>Deputy Director of Airport, Ministry of Transportation</i>
10:30 – 11:00	Keynote Speech 11 Prof. Abdul Rashid Abdul Aziz <i>Institute of Transport Infrastructure, Universiti Teknologi Petronas, Malaysia</i>
11:00 – 11:30	Keynote Speech 12 Prof. Eniya Listiani Dewi <i>Deputy for Information, Energy, And Material Technology, Agency for the Assessment and Application of Technology (BPPT)</i>
11:30 – 12:00	Keynote Speech 13 Henhen Krisantiyuda <i>Indonesia Subsidiaries Powergen Sales Manager, PT MTU Indonesia</i>

12.00 – 12.30	Keynote Speech 14 Prof. Muhammad Aziz <i>Institute of Innovative Research, Tokyo Institute of Technology, Japan</i>
12:30 – 13:45	Lunch Break
13.45 – 15.00	Parallel Session 3
15.00 – 15.30	Coffee Break
15.30 – 17.15	Parallel Session 4
17:15 - End	Closing

PARALLEL SESSION 1 SCHEDULE

Date & Time : Tuesday, October 30, 2018, 13.45 – 15.00

Venue : Meeting Room 9

Time	Title and Author	Topic	ID
13.45 – 14.00	Robust Optimal Control for Train Operation of 2-Car AGT (Automated Guide-way Transit) in Automatic People Movers System <i>Hermanto and Endra Joelianto</i>	Control System	3
14.00 – 14.15	Optimal Control for Autonomous Navigation of a Truck System <i>Lucas Elbert Suryana and Endra Joelianto</i>	Control System	4
14.15 – 14.30	Experimental Modeling of a Quadrotor UAV Using an Indoor Local Positioning System <i>Muhammad Arifin, Rival Santosa, Yul Nazaruddin, Augie Widyotriatmo and Tua Tamba</i>	Control System	26

<p>14.30 – 14.45</p>	<p>Development of Static and Dynamic Online Measurement System for Ground Vehicles</p> <p><i>Ignatius Pulung Nurprasetio, Bentang Arief Budiman, Muhammad Aziz, and Ahmad Alfin Afwan</i></p>	<p>Control System</p>	<p>21</p>
<p>14.45 – 15.00</p>	<p>Modeling and Analysis of Lateral Control System on Electronic Differential for 2-Independent-Wheel-Drive Electric Urban Bus</p> <p><i>Joga Dharma Setiawan, Ismoyo Haryanto, Indra Sutanto and Munadi Munadi</i></p>	<p>Control System</p>	<p>41</p>

Date & Time : Tuesday, October 30, 2018, 13.45 – 15.00
Venue : Meeting Room 10

Time	Title and Author	Topic	ID
13.45 – 14.00	Design and Optimization of Solar, Wind, and Distributed Energy Resource (DER) Hybrid Power Plant for Electric Vehicle (EV) Charging Station in Rural Area <i>Muhammad Nizam and Fx Rian Wicaksono</i>	Battery Technology and Management System	51
14.00 – 14.15	Preliminary Study of Graphite Rod Pre-treatment in H₂O₂/H₂SO₄ Mixture Solution on the Synthesized Graphene by Electrochemical Exfoliation Method <i>Ferry Iskandar, Oktaviardi Bityasmawan Abdillah, Tirta Rona Mayangsari and Akfiny Hasdi Aimon</i>	Battery Technology and Management System	19
14.15 – 14.30	Enhancing the Electrical Conductivity of Graphene Oxide Reduced by L-Ascorbic Acid via Microwave- Assisted Method <i>Ferry Iskandar, Juwansyah Sasmita, Tirta Rona Mayangsari, Akfiny Hasdi Aimon and Retno Maharsi</i>	Battery Technology and Management System	20

<p>14.30 – 14.45</p>	<p>Synthesis and Characterization Of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Material Via Co-Precipitation Method With Green Chelating Agents</p> <p><i>Ike Puji Lestari, Anisa Raditya Nurohmah, Muhammad Nur Ikhsanudin, Cornelius Satria Yudha, Hendri Widiyandari and Agus Purwanto</i></p>	<p>Battery Technology and Management System</p>	<p>23</p>
<p>14.45 – 15.00</p>	<p>Comparative Study of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Material Synthesis methods towards their Structure Characteristics</p> <p><i>Karina Diah Rosa Ekawati, Asih Purwanti Sholikah, Scila Ardanari Santoso, Cornelius Satria Yudha, Hendri Widiyandari and Agus Purwanto</i></p>	<p>Battery Technology and Management System</p>	<p>24</p>

PARALLEL SESSION 2 SCHEDULE

Date & Time : Tuesday, October 30, 2018, 15.30 – 17.15

Venue : Meeting Room 9

Time	Title and Author	Topic	ID
15.30 – 15.45	Nonlinear stability analysis of vehicle side-slip dynamics using SOS programming <i>Tua Tamba and Yul Yunazwin Nazaruddin</i>	Control System	42
15.45 – 16.00	Implementation IBEV Model and Its Speed Control Applications in Molina ITB for Energy Efficiency <i>Rina Ristiana, Arief Syaichu-Rohman, Agus Purwadi, Carmadi Machbub, Estiko Rijanto and Hilwadi Hindersah</i>	Control System	43
16.00 – 16.15	Port Container Truck Localization Using Sensor Fusion Technique <i>Adi Suparyanto, Rini Nur Fatimah, Yul Yunazwin Yunazwin Nazaruddin and Augie Widyotriatmo</i>	Control System	44

<p>16.15 – 16.30</p>	<p>Application Of Wavelet Transformation Symlet Type And Coiflet Type For Partial Discharge Signals Denoising</p> <p><i>Arpan Zaeni, Tria Kasna Lestari, and Umar Khayam</i></p>	<p>Electric System, Drives, Motors, Machinery</p>	<p>47</p>
<p>16.30 – 16.45</p>	<p>Optimal Placement of Unified Power Flow Controllers (UPFC) for Losses Reduction and Improve Voltage Stability Based on Sensitivity Analysis in 500 kV Java-Bali Electrical Power System</p> <p><i>Chico Hermanu B A, Muhammad Nizam and Fasda Ilhaq Robbani</i></p>	<p>Electric System, Drives, Motors, Machinery</p>	<p>46</p>
<p>16.45 – 17.00</p>	<p>Study of Supercapacitor Utilization on Regenerative Braking System: Design and Simulation</p> <p><i>Diaz Angga Permana, Umar Sholahuddin, Tri Desmana Rachmildha, and Deny Hamdani</i></p>	<p>Electric System, Drives, Motors, Machinery</p>	<p>56</p>

17.00 – 17.15	<p>A Study of A Three Phase Induction Motor Performances Controlled by Indirect Vector and Predictive Torque Control</p> <p><i>Ahmad Antares Adam, Agus Purwadi, Arief Syaichu Rohman and Yanuarsyah Haroen</i></p>	Electric System, Drives, Motors, Machinery	29
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Date & Time : Tuesday, October 30, 2018, 15.30 – 17.15
 Venue : Meeting Room 10

Time	Title and Author	Topic	ID
15.30 – 15.45	<p>Charging Quality of 100 Amperhours Battery Using a Silicon Photovoltaic at Different Altitude in Semarang Region</p> <p><i>Sulistyo, Yoga Darma Setiawan, Deni Fajar Fitriyana, and Sjafirialdi Prathama</i></p>	Battery Technology and Management System	12

<p>15.45 – 16.00</p>	<p>Real-Time Comparison of Electromechanical and Thyristor-Switched Capacitor Banks for Improving Power Factor in Lead-Acid Battery Manufacturing Industry</p> <p><i>Muhammad Nizam, Fx. Rian Wicaksono</i></p>	<p>Battery Technology and Management System</p>	<p>50</p>
<p>16.00 – 16.15</p>	<p>Goal Programming Model for Capital Budgeting Investment of Lithium Accumulator Production Unit for Motorcycle</p> <p><i>Cecilia Intan Wijayanti, Wahyudi Sutopo and Roni Zakaria</i></p>	<p>Battery Technology and Management System</p>	<p>10</p>
<p>16.15 – 16.30</p>	<p>Model Based Simulation for Hybrid Fuel Cell/Battery/Ultracapacitor Electric Vehicle</p> <p><i>Inayati Inayati, Hery Tri Waloyo, Hamdani Saidi, Muhammad Nizam</i></p>	<p>Battery Technology and Management System</p>	<p>52</p>

<p>16.30 – 16.45</p>	<p>Development of Engine Power Capacity Calculation Method for Range Extender and Case Study in Medium-Size Electric Bus</p> <p><i>Iman Kartolaksono Reksowardojo, Granto Natama Putra, Widodo Budi Santoso, Agus Purwadi and Ignatius Pulung Nurprasetyo</i></p>	<p>Battery Technology and Management System</p>	<p>57</p>
<p>16.45 – 17.00</p>	<p>Dimensional and parametric studies on thermal behavior of Li-ion Batteries</p> <p><i>Evan Philander, Bentang Arief Budiman, Muhammad Aziz and Poetro Sambegoro</i></p>	<p>Battery Technology and Management System</p>	<p>53</p>
<p>17.00 – 17.15</p>	<p>A stability improvement of rechargeable Zn-air batteries by introducing thiourea and polyethylenimine as electrolyte additives</p> <p><i>Afrijanti Sumboja and Poetro Lebdo Sambegoro</i></p>	<p>Battery Technology and Management System</p>	<p>59</p>

PARALLEL SESSION 3 SCHEDULE

Date & Time : Wednesday, October 31, 2018, 13.45 – 15.00

Venue : Meeting Room 9

Time	Title and Author	Topic	ID
13.45 – 14.00	Parametric Design in Single Disk Axial Eddy Current Brake <i>Hery Tri Waloyo, Dominicus Danardono Dwi Prija Tjahjana, Muhammad Nizam and Ubaidillah</i>	Transportation Safety	14
14.00 – 14.15	Detection of Moving Vehicle using Adaptive Threshold Algorithm on Varied Lighting <i>Yuslena Sari and Puguh Budi Prakoso</i>	Transportation Safety	32
14.15 – 14.30	The Concept of Sandwich Panel Structures for Battery Protections in Electric Vehicles Subjected to Ground Impact <i>Putri Nur Halimah, Sigit Puji Santosa, Annisa Jusuf and Tatacipta Dirgantara</i>	Transportation Safety	34

<p>14.30 – 14.45</p>	<p>Goldsmith's Commercialization Model for Feasibility Study of Technology Lithium Battery Pack Drone</p> <p><i>Nida An Khofiyah, Wahyudi Sutopo, and Bayu Dwi Apri Nugroho</i></p>	<p>EV Socio-Economical Impact and Commercialization</p>	<p>11</p>
<p>14.45 – 15.00</p>	<p>A Review of Electric Vehicles Charging Standard Development: Study Case in Indonesia</p> <p><i>Wahyudi Sutopo, Budhy Rahmawatie, Fakhrina Fahmaand Muhammad Nizam</i></p>	<p>EV Socio-Economical Impact and Commercialization</p>	<p>45</p>

PARALLEL SESSION 4 SCHEDULE

Date & Time : Wednesday, October 31, 2018, 13.45 – 17.15

Venue : Meeting Room 9

Time	Title and Author	Topic	ID
15.30 – 15.45	Design Study in Single Disk Axial Eddy Current Brake <i>Mufti Reza Aulia Putra, Dominicus Danardono Dwi Prija Tjahjana, Muhammad Nizam, Ubaidillah, MR Arfandi, and I Choirunisa</i>	Transportation Safety	8
15.45 – 16.00	Composite Based Lightweight Structure Design for Crash and Safety Application <i>Fahmi Rizal Fauzi, Sigit Puji Santosa, Bambang Kismono Hadi, and Annisa Jusuf</i>	Transportation Safety	38
16.00 – 16.15	Development of Low-Cost Autonomous Emergency Braking System (AEBS) for Electric Car <i>Mochammad Ariyanto, Gunawan D. Haryadi, M Munadi, Rifky Ismail, and Zulfa Hendra</i>	Transportation Safety	13

<p>16.15 – 16.30</p>	<p>Li-ion NCA Battery Safety Assessment for Electric Vehicle Applications</p> <p><i>Hafiz Fadillah, Sigit Puji Santosa, Annisa Jusuf and Tatacipta Dirgantara</i></p>	<p>Battery Technology and Management System</p>	<p>35</p>
<p>16.30 – 16.45</p>	<p>Study and Design High Frequency Resonant Inductive Power Transfer for Application of Wireless Charging Electric Vehicles</p> <p><i>Agus Purwadi, Arwindra Rizqiawan, Ayudhia Puspita Pohan, Danang Choirul Abdillah, Made Dimas Ganda Wijaya</i></p>	<p>Battery Technology and Management System</p>	<p>37</p>
<p>16.45 – 17.00</p>	<p>Facile Synthesis of High-Performance SiO₂/C Composite from Coal Fly Ash as an Anode Material for Lithium-Ion Batteries</p> <p><i>Annisa Puji Lestari, Rina Amelia Rosada, Anisa Darma Brilliant, Soraya Ulfa Muzayanha, Inayati, Agus Purwanto and Arif Jumari</i></p>	<p>Battery Technology and Management System</p>	<p>25</p>

17.00 – 17.15	Fabrication and Electrochemical of Lithium Iron Phosphate LiFePO₄/C as Cathode Material of Lithium Ion Battery <i>Luthfi Mufidatul Hasanah, Aditiya Septanintyas, Agus Purwanto, Eva Dyah Pambayun, Diajeng Putri Suciutami and Adrian Nur</i>	Battery Technology and Management System	27
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Date & Time : Wednesday, October 31, 2018, 15.30 – 16.45
Venue : Meeting Room 10

Time	Title and Author	Topic	ID
15.30 – 15.45	Modification of Circular Radius, Arm Patch Line Width and Power Supply Line of UWB Double Layer Printed Antenna for Partial Discharge Detection <i>Yoka Mustopa and Umar Khayam</i>	Electric System, Drives, Motors, Machinery	54
15.45 – 16.00	Comparative Study of PWM Method for Optimal Energy Control of Railway Traction Motor <i>Hari Maghfiroh, Chico Hermanu B A, Subuh Pramono and Muhammad Nizam</i>	Electric System, Drives, Motors, Machinery	6

<p>16.00 – 16.15</p>	<p>Comparison of PID Controller Tuning Methods for Multi PMSM Angular Speed Synchronization</p> <p><i>Kristian Ismail, Tri Desmana Rachmildha, Estiko Rijanto, Rina Ristiana and Yanuarsyah Haroen</i></p>	<p>Electric System, Drives, Motors, Machinery</p>	<p>39</p>
<p>16.15 – 16.30</p>	<p>On the Design of Electric Power Steering Control Unit</p> <p><i>Indrawanto and Tutla Ayatullah</i></p>	<p>Electric System, Drives, Motors, Machinery</p>	<p>49</p>
<p>16.30 – 16.45</p>	<p>Dynamic Analysis of Electric Bus Chassis Using Finite Element Method</p> <p><i>Ojo Kurdi, Gunawan Dwi Haryadi, Ismoyo Haryanto, M Wildan</i></p>	<p>EV Body, Chassis, and Platform</p>	<p>28</p>
<p>16.45 – 17.00</p>	<p>Static Analysis of an Electric Three Wheel Vehicle</p> <p><i>Faizal Arifurrahman and Bentang Arief Budiman</i></p>	<p>EV Body, Chassis, and Platform</p>	<p>58</p>

**Subjects may change without prior notification*

