



# The 1st International Conference on Mechanical, Electronics and Biosystem Engineering 2018 (MEBSE 2018)

Secretariat: Dept. of Mechanical and Biosystem Engineering, Faculty of Agricultural Engineering and Technology, Bogor Agricultural University, Indonesia 16680  
Tel./Fax.: +62-251-8623026, e-mail: tmb\_ipb@apps.ipb.ac.id, website: mebse2018.weebly.com

## Tentative Program MEBSE 2018

TIME	AGENDA			
<b>First Day</b>	<b>15<sup>TH</sup> DECEMBER 2018, SATURDAY</b>			
08.00 – 08.30	Registration			
<b>08.30 - 09.00</b>	<b>Opening Ceremony</b> (Venue: Abdul Muis Nasution Auditorium)			
08.30 – 08.40	Welcoming Address: <ul style="list-style-type: none"> <li>• <i>Prof. Dr. Ir. Sutrisno, M.Agr. – IPB (General Chair of MEBSE 2018)</i></li> <li>• <i>Assoc. Prof. Ts. Dr. Shahrman Abu Bakar - UniMAP</i></li> </ul>			
08.40 – 08.50	Welcoming address from Rector of Bogor Agricultural University (IPB) continued with official opening of MEBSE 2018: <ul style="list-style-type: none"> <li>• <i>Prof. Dr. Ir. Dodik Nur Rahmat.</i></li> </ul>			
<b>08.50 - 09.00</b>	<b>Plenary Session I</b> Moderator: <i>Prof. Dr. Ir. Herry Suhardiyanto, M.Sc.</i>			
09.00 – 09.25	“Technologies Required to Improve Agricultural Production System in Indonesia” <i>Dr. Daisuke Miyamoto – Deputy Director of YARI</i>			
09.25 – 09.50	“Artificial Olfaction: The Future Smells Good” <i>Prof. Dr. Abdul Hamid Adom - UniMAP</i>			
09.50 – 10.15	Discussion			
10.15 – 10.30	Photo Session + Coffee Break			
<b>10.30 - 11.45</b>	<b>Plenary Session II</b> Moderator: <i>Dr. Ir. Desrial, M.Eng</i>			
10.30 – 10.55	“The Critical Interplay of Precision Agriculture, Agricultural Engineering, and Biosystem Engineering” <i>Prof. Dr. Ir. Kudang B. Seminar, M.Sc.- IPB</i>			
10.55 – 11.20	“Industry Revolution 4.0: Status, Challenges & Issues in Malaysia” <i>Ir. Prof. Dr. R. Badlishah Ahmad - UniMAP</i>			
11.20 – 11.45	Discussion			
11.45 – 13.00	Lunch Break			
<b>14.00 - 17.00</b>	<b>PARALELL SESSION I</b>			
14.00 – 17.00	<b>ROOM A</b> (8 slots)	<b>ROOM B</b> (8 slots)	<b>ROOM C</b> (8 slots)	<b>ROOM D</b> (8 slots)



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TIME	AGENDA			
<b>Second Day</b>	<b>16<sup>TH</sup> DECEMBER 2018, SUNDAY</b>			
07.40 – 08.10	Registration			
<b>08.10 - 10.10</b>	<b>PARALELL SESSION II</b>			
08.10 – 10.10	<b>ROOM A (6 slots)</b>	<b>ROOM B (6 slots)</b>	<b>ROOM C (6 slots)</b>	<b>ROOM D (6 slots)</b>
10.10 – 10.20	Tea Break			
<b>10.20 - 13.00</b>	<b>PARALELL SESSION III</b>			
10.20 – 13.00	<b>ROOM A (8 slots)</b>	<b>ROOM B (8 slots)</b>	<b>ROOM C (8 slots)</b>	<b>ROOM D (8 slots)</b>
13.00 – 14.00	Lunch Break			
14.00 – 16.30	<p>“Scientific Writing Workshop”  <i>Prof. Dr. Abdul Hamid Adom – UniMAP</i></p> <p>“Ethics in Scientific Writing”  <i>Dr. Nanik Purwanti - IPB</i></p> <p>(Venue: FATETA’s Meeting room)</p>			
16.30 – 17.00	<b>Closing Ceremony</b> (Venue: Abdul Muis Nasution Auditorium)			



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## MEBSE 2018 – PARALELL SESSION I

15<sup>TH</sup> December 2018 - 14:00-17:00

VENUE: ROOM A (Meeting Room – Faculty of Agricultural Engineering and Technology)

TOPIC: Mechatronics, Ergonomics, and Biomedical Engineering

Pres. Code	Paper ID	Paper Title and Author
A-1-01	07	<b>Muscle Fatigue Recognition During Arm Movement Using EMG signal</b> Basri Noor Cahyadi, Wan Khairunizam Wan Ahmad
A-1-02	19	<b>Analysis of Human Behaviour while Control the Steering Wheel of a Buggy Electric Vehicle (EV)</b> Abdul Hafiz Abd Halin, Wan Khairunizam Wan Ahmad
A-1-03	32	<b>Enhancement of Motor Imagery Brain Computer Interface performance Using Channel Reduction Method based on Statistical Parameters</b> Mohd Shuhanaz Zanar Azalan, Abdul Hamid Adom, Paulraj M P
A-1-04	63	<b>Stacked Stepped-Fed Super Wideband Antenna Performance in Free Space and Liquid Medium for Biomedical Applications</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad and Aminudin Jamlos
A-1-05	68	<b>Analysis of EEG Spectrum Bands using Power Spectral Density for Pleasure and Displeasure State</b> Anis Ameera Md Anuar Musaddad, Saidatul Ardeenawatie Awang and Zunaidi Ibrahim
A-1-06	69	<b>Exploring EEG based Authentication for Imaginary and Non-imaginary tasks using Power Spectral Density Method</b> Chin Tze Zhi, Saidatul Ardeenawatie Awang and Zunaidi Ibrahim
A-1-07	03	<b>Investigation of Upper Limb Muscle Contraction based on Movement Sequence Pattern by Using sEMG Signal</b> Wan Khairunizam Wan Ahmad, Basri Noor Cahyadi
A-1-08	70	<b>PSD-based Features Extraction for EEG Signal during Typing Task</b> Ng Wei Bin, Saidatul Ardeenawatie Awang and Chong Yen Fook



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## MEBSE 2018 – PARALELL SESSION I

15<sup>TH</sup> December 2018 - 14:00-17:00

VENUE: ROOM B (Meeting Room – Department of Mechanical and Biosystem Engineering)

TOPIC: Fluid Thermal and Energy Conversion

Pres. Code	Paper ID	Paper Title and Author
B-1-01	26	<b>Root Zone Temperature Distribution during Root Zone Cooling in Hydroponic System under Tropical Greenhouse</b> Herry Suhardiyanto, Agus Ghautsun Niam
B-1-02	40	<b>Experimental Study of Compact Multi-Pass Evaporator Two Phase Flow</b> Rhenita Heng, Zuradzman Mohamad Razlan
B-1-03	42	<b>Analysis of fluid flow in modenas motorcycle exhaust pipe (modenas CT 110)</b> Mohd Asrul Md Saad, and Zuradzman Mohamad Razlan
B-1-04	43	<b>Experimental study of two phase flow distribution behavior in vertical downward multi-pass channel</b> Rhenita Heng, and Zuradzman Mohamad Razlan
B-1-05	36	<b>Simulation On Natural Convection Semi-Glazed Flat Plate Solar Collector For Green Bell Pepper Drying Application</b> Leopold Nelwan
B-1-06	59	<b>Design Modification of Greenhouse Effect Solar-Hybrid Rack Type Dryer</b> Dyah Wulandani, Sri Endah Agustina, Muhammad Yulianto, Leopold O. Nelwan, Lilik M. Rahman and Slamet Widodo
B-1-07	31	<b>Spouted Bed Drying of White Pepper (Piper nigrum L.) with Microwave Preheating Treatment</b> Edy Hartulistiyoso, Y. Aris Purwanto, Andi M. Akram Mukhlis
B-1-08	35	<b>Effect Of Voltage And Frequency In Pasteurization Pulsed Electric Field (Pef) Continuous System Of Pineapple (Ananas Comosus [L.] Merr) Juice</b> Dina Wahyu Indriani, Sumardi Hadi Sumarlan, Syahnaz Amalia



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## MEBSE 2018 – PARALELL SESSION I

15<sup>TH</sup> December 2018 - 14:00-17:00

VENUE: ROOM C (Meeting Room – Department of Food Science and Technology)

TOPIC: Postharvest, Food, and Biosystem Engineering

Pres. Code	Paper ID	Paper Title and Author
C-1-01	09	<b>Synthesis of Slow Release Fertilizer from Rice Straw/UB Coated with SMR L</b> Assoc Prof Dr Nik Noriman Zulkepli
C-1-02	50	<b>Prediction of Ethylene Production Rate of Barangan Banana using Kinetic Enzymatic Michaelis-Menten</b> Arief Fazlul Rahman, Emmy Darmawati, Usman Ahmad
C-1-03	10	<b>Characterization of Slow Release Fertilizer from Epoxidized/Rice Straw/Urea Bead on FTIR and UV-Vis</b> Assoc Prof Dr Nik Noriman Zulkepli
C-1-04	51	<b>Single packaging design of papaya (Carica papaya. L) variety IPB 9 (Calina) for transportation and distribution</b> Pandu Legawa Ismaya, Emmy Darmawati, Setyadjit Setyadjit
C-1-05	15	<b>Colour Component Analysis Approach for Malaria Parasites Detection Based on Thick Blood Smear Images</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad, Aimi Salihah Abdul Nasir
C-1-06	53	<b>Effects of slurry concentration and rotational speeds of drum drier to the characteristics of pregelatinized breadfruit (Artocarpus altilis) flours</b> Titi Candra Sunarti, Wenny Silvia Loren Br Sinaga, Chilwan Pandji
C-1-07	57	<b>Determination of Mung Bean Seed Viability Change in Vacuum Packaging during Storage in Different Temperatures</b> Muhammad Faisal, Usman Ahmad, Dyah Wulandani and Slamet Widodo
C-1-08	58	<b>Maintenance Cost Reduction of Paddy Seed Production Machinery by Implementing Preventive Maintenance System</b> Setyo Pertiwi, Wawan Hermawan, Endah Prahmawati and Slamet Widodo



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## MEBSE 2018 – PARALELL SESSION I

15<sup>TH</sup> December 2018 - 14:00-17:00

VENUE: ROOM D (Meeting Room – Department of Agroindustrial Technology)

TOPIC: Network, Data, and Automation

Pres. Code	Paper ID	Paper Title and Author
D-1-01	48	<b>Low-Complexity Distributed SDN Controller Environments on Switch Migration Testbed</b> Mohd Nazri Bin Mohd Warip, Anuar Mat Safar, R. Badlishah Ahmad, Naimah Yaakob, Amiza Amir, Zunaidi Ibrahim, and Mohammed Ali Hezam Al-Junaid
D-1-02	20	<b>Performance Analysis of Software Defined Network in Link Failure Scenarios</b> Muhammad Afiq Izzudin Mohd Sakari, Naimah Yaakob, Amiza Amir, R. Badlishah Ahmad, Mohd. Nazri Mohd. Warip
D-1-03	29	<b>Distributed Online Averaged One Dependence Estimator (DOAODE) Algorithm for Multi-Class Classification of Network Anomaly Detection System</b> Mukrimah Nawir, Amiza Amir, Naimah Yaakob, R. Badlishah Ahmad, Mohd Nazri Mohd Warip
D-1-04	52	<b>Design of online application for agricultural machinery service based on android operating system</b> Desrial Desrial, Prawesa Adi Kumara Indriawardhana
D-1-05	47	<b>Fragmentation in MAC IEEE 802.15.4 to Improve Delay Performance in Wireless Body Area Network (WBAN)</b> Wan Aida Nadia Wan Abdullah, Naimah Yaakob, Rbadlishah Ahmad, Mohamed Elshaikh, Siti Asilah Yah, and Zunaidi Ibrahim
D-1-06	55	<b>Predicting The Identity Of A Person Using Aggregated Features Of Handwriting</b> Hariraj Venketkumar, Wan Khairunizam, Rajkumar Janani
D-1-07	76	<b>Spectral Efficiency Improving Technique in OCDMA-VLC System for IoT Application using Catenated-OFDM Modulation Scheme</b> Norizan Mohamed Nawawi and Anuar Mat Safar
D-1-08	66	<b>Performance analysis of Software Defined Network (SDN) in link failure scenario</b> Naimah Yaakob, Muhammad Afiq Izzudin Mohd Sakari, Amiza Amir, R. Badlishah Ahmad, Mohd Nazri Bin Mohd Warip and Zunaidi Ibrahim



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## MEBSE 2018 – PARALELL SESSION II

16<sup>TH</sup> December 2018 - 08:30-10:30

VENUE: ROOM A (Meeting Room – Faculty of Agricultural Engineering and Technology)

TOPIC: Mechatronics, Ergonomics, and Biomedical Engineering

Pres. Code	Paper ID	Paper Title and Author
A-2-01	14	<b>A Comprehensive Review on Document Image (DIBCO) Database</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad
A-2-02	71	<b>Non Linear Features Analysis between Imaginary and Non-imaginary Tasks for Human EEG-based Biometric Identification</b> Ong Zhi Ying, Saidatul Ardeenawatie Awang and Vikneswaran Vijean
A-2-03	16	<b>Image Segmentation Approach for Acute and Chronic Leukaemia Based on Blood Sample Images</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad, Aimi Salihah Abdul Nasir
A-2-04	74	<b>EMD Based EEG Analysis for User Authentication Using Typing Task</b> Intan Amalina Abdul Rahim, Saidatul Ardeenawatie Awang and Chong Yen Fook
A-2-05	30	<b>Analysis of Spatial Distribution of Soil Moisture Content for Different Soil Layers in Harumanis Greenhouse</b> Fatnin Nazifa Mohamad Zalani, Fathin Ayuni Azizan, Arravinthen Nagarajan, Aimi Athirah Aznan, Rashidah Ruslan
A-2-06	54	<b>Tumor Detection via Specific Absorption Rate Technique Using Ultra-Wideband Antenna</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad and Aminudin Jamlos



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## MEBSE 2018 – PARALELL SESSION II

16<sup>TH</sup> December 2018 - 08:30-10:30

VENUE: ROOM B (Meeting Room – Department of Mechanical and Biosystem Engineering)

TOPIC: Fluid Thermal and Energy Conversion

Pres. Code	Paper ID	Paper Title and Author
B-2-01	60	<b>Modification Effect Of Vertical Partition On Kiln Drum Performance For Coconut Shell Carbonization</b> Lilis Sucahyo and Mu'minah Mustaqimah
B-2-02	72	<b>Pellet Mill Fixed Dies Type for Production of Solid Fuel Pellets from Acacia mangium Bark</b> Rengga Arnalis Renjani and Dyah Wulandani
B-2-03	75	<b>Energy and Exergy Analysis on Pyrolysis Process of Oil Palm Empty Fruit Bunch</b> Tiara Etika S, Agus Susilo Ginting, Radite Pa Setiawan, Joelianingsih Joelianingsih and Armansyah Halomoan Tambunan
B-2-04	22	<b>An Overview on Overvoltage Phenomena in Power Systems</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad, Nur Khairul Hafizi Rohani
B-2-05	28	<b>Research &amp; Development (R&amp;D) in Strategic Production of a Safest Car</b> Aidanazima Abashah
B-2-06	41	<b>Analysis Of Relation Between Propulsion Angle And Thrust Generation Of Sea-Eye</b> Is Eswanto, Zuradzman Mohamad Razlan





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## MEBSE 2018 – PARALELL SESSION II

16<sup>TH</sup> December 2018 - 08:30-10:30

VENUE: ROOM C (Meeting Room – Department of Food Science and Technology)

TOPIC: Postharvest, Food, and Biosystem Engineering

Pres. Code	Paper ID	Paper Title and Author
C-2-01	11	<b>The Effects of Epoxidized Natural Rubber Coating on Rice Straw for Slow Release Fertilizer Application</b> Assoc Prof Dr Nik Noriman Zulkepli
C-2-02	64	<b>Prediction Shelf Life of Arabica Java Preanger Coffee Beans under Hermetic Packaging Using Arrhenius Method</b> Sutrisno Mardjan, Fikri R. Hakim and Slamet Widodo
C-2-03	61	<b>Synthesis and characterization of aloe vera-based edible film incorporated with shellac resin and hydrocolloids</b> Nanik Purwanti, Fajri Yunus and Emmy Darmawati
C-2-04	12	<b>Investigation of New Slow Release Material from Rice Husk/UB/Natural Rubber Composites</b> Assoc Prof Dr Nik Noriman Zulkepli
C-2-05	18	<b>Monitoring of Mango Leaves Area and Chlorophyll Content using SPAD and Leaf Area Meter</b> Normardhiyah Roslan, Aimi Athirah Aznan, Rashidah Ruslan, Mahmad Nor Jaafar, Fathin Ayuni Azizan
C-2-06	49	<b>Geometrical and Mechanical Performance of Multi-Material Fused Deposition Modelling</b> Nindya Aprilia Alief, Yudan Whulanza, Muhammad Satrio Utomo



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## MEBSE 2018 – PARALELL SESSION II

16<sup>TH</sup> December 2018 - 08:30-10:30

VENUE: ROOM D (Meeting Room – Department of Agroindustrial Technology)

TOPIC: Network, Data, and Automation

Pres. Code	Paper ID	Paper Title and Author
D-2-01	13	<b>Navigation Mobile Apps Utilization and K–MACS Algorithm for VRPTW Model of Fruits Distribution</b> Sri Hartati, Kudang B. Seminar, Sutrisno
D-2-02	39	<b>Car Automotive Machine Operation And Start With Sound Commands Based On Arduino Uno Using Smartphone</b> Zulkarnain Lubis, Mahrizal Masri, Solly Aryza, Selly Annisa
D-2-03	34	<b>Automated Chicken Weighing System using Wireless Sensor Network for Poultry Farmers</b> Chau Ching Lee, Erdy Sulino Mohd Muslim Tan, Abdul Hamid Adom, Marni Azira Markom
D-2-04	73	<b>Estimating Greenhouse Gas Emissions from Irrigated Paddy Fields in Indonesia under Various Water Managements</b> Chusnul Arif
D-2-05	01	<b>Automated Spray Painting System (ASPS) For Aerospace Composites Malaysia (ACM) SDN BHD</b> Zunaidi Ibrahim and Mohd Rudzuan Mohd Nor
D-2-06	02	<b>Simulation Studies - Path Tracking of an Autonomous Electric Vehicle (AEV) by using Fuzzy Information of Speed and Steering Angle</b> Wan Khairunizam Wan Ahmad, Abdul Hafiz Abd Halin



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## MEBSE 2018 – PARALELL SESSION III

16<sup>TH</sup> December 2018 - 11:00-12:40

VENUE: ROOM A (Meeting Room – Faculty of Agricultural Engineering and Technology)

TOPIC: Mechatronics, Ergonomics, and Biomedical Engineering

Pres. Code	Paper ID	Paper Title and Author
A-3-01	04	<b>Computational Investigation of Breast Cancer on Mammogram based on Patterns of Color Distribution</b> Wan Khairunizam Wan Ahmad, Zunaidi Ibrahim
A-3-02	06	<b>Development of Predictive Models for Cervical Cancer Based on Gene Expression Profiling Data</b> Azian Azamimi Abdullah, Wan Khairunizam Wan Ahmad
A-3-03	21	<b>Document Images Binarization Using Hybrid Combination of Fuzzy C-Means and Deghost Method</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad
A-3-04	33	<b>EEG Data Collection Based on Task of Images for Neuron Motor Disorder Patient</b> Erdy Sulino Mohd Muslim Tan, Abdul Hamid Adom, Marni Azira Markom, Hakimah Osman
A-3-05	65	<b>Image Enhancement Based on Discrete Cosine Transforms (DCT) and Discrete Wavelet Transform (DWT): A Review</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad and Aminudin Jamlos
A-3-06		
A-3-07		
A-3-08		



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## MEBSE 2018 – PARALELL SESSION III

16<sup>TH</sup> December 2018 - 11:00-12:40

VENUE: ROOM B (Meeting Room – Department of Mechanical and Biosystem Engineering)

TOPIC: Fluid Thermal and Energy Conversion

Pres. Code	Paper ID	Paper Title and Author
B-3-01	44	<b>Analysis Study Of Relation Between UAV's Motor Support Bar Length And The UAV Control Systems</b> Muhammad Zikri Zakariya, and Zuradzman Mohamad Razlan
B-3-02	45	<b>Experimental study of UAV propeller Thrust generation for various Propeller Blade-Span and the relation with mouth-ring</b> Mohd Najib Khir Othman, and Zuradzman Mohamad Razlan
B-3-03	46	<b>Dynamic Analysis of UAV's Motor Support Bar Length Control System</b> Firdhaus M. Zulkifli, and Zuradzman Mohamad Razlan
B-3-04	08	<b>Photocatalytic Activity of Metal Oxide and Activated Carbon for Waste Water Treatment - A Review</b> Assoc Prof Dr Nik Noriman Zulkepli
B-3-05		
B-3-06		
B-3-07		
B-3-08		



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## MEBSE 2018 – PARALELL SESSION III

16<sup>TH</sup> December 2018 - 11:00-12:40

VENUE: ROOM C (Meeting Room – Department of Food Science and Technology)

TOPIC: Postharvest, Food, and Biosystem Engineering

Pres. Code	Paper ID	Paper Title and Author
C-3-01	17	<b>Blood Vessel Extraction Using Combination of Kirsch’s Templates and Fuzzy C-Means (FCM) on Retinal Images</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad
C-3-02	23	<b>Morphological Features Selection of Malaysian Rice Seed Varieties using Discriminant Function Analysis</b> Rashidah Ruslan, Siti Khairunniza Bejo, Aimi Athirah Aznan, Ibni Hajar Rukunuddin
C-3-03	56	<b>The Study Quality Parameters of Yellow Matoa Fruit (Pometia pinnata) Using Digital Image Processing</b> Alexander Furay, Usman Ahmad, Slamet Widodo
C-3-04	67	<b>Prediction of Leaf Color Level and Chlorophyll Content of Corn (Zea mays L.) by Using Mobile Phone</b> I Wayan Astika and Nuzul Nur Khayati
C-3-05		
C-3-06		
C-3-07		
C-3-08		



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## MEBSE 2018 – PARALELL SESSION III

16<sup>TH</sup> December 2018 - 11:00-12:40

VENUE: ROOM D (Meeting Room – Department of Agroindustrial Technology)

TOPIC: Network, Data, and Automation

Pres. Code	Paper ID	Paper Title and Author
D-3-01	24	<b>Path Loss Analysis Considering Doppler Shift Effect on Cellular Communication for Connected Car Application at Rural Area</b> Azarul Fahmin Bin Ab Hamid, Md Tasyrif Bin Abdul Rahman, Anas Bin Abdul Rahman
D-3-02	25	<b>Path Loss with Doppler Shift Effect Analysis on Cellular Communication for Connected Car Application in Urban Area</b> Azarul Fahmin Bin Ab Hamid, Md Tasyrif Bin Abdul Rahman, Anas Bin Abdul Rahman
D-3-03	38	<b>Improved KNN Scan Matching for Local Map Classification in Mobile Robot Localisation Application</b> Marni Azira Markom, Abdul Hamid Adom, Shazmin Aniza Abdul Shukor, Norasmadi Abdul Rahim, Erdy Sulino Mohd Muslim Tan, Bukhari Ilias
D-3-04	62	<b>Effect of Roadways Plantation on Signal Propagation Analysis in Connected Autonomous Vehicle Communication</b> Jamie Turner, Shahrman Abu Bakar and Azizi Harun
D-3-05	37	<b>High Gain of Directional Ultra-Wideband Array Antenna Using Flat Reflector Structure for Microwave Imaging</b> Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad, Aminudin Jamlos
D-3-06		
D-3-07		
D-3-08		