## Tentative Program MEBSE 2018

### First Day
15<sup>th</sup> December 2018, Saturday

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<th>TIME</th>
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<tr>
<td>08.00 – 08.30</td>
<td>Registration</td>
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<tr>
<td><strong>08.30 - 09.00</strong></td>
<td><strong>Opening Ceremony</strong> (Venue: Abdul Muis Nasution Auditorium)</td>
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</table>
| 08.30 – 08.40 | Welcoming Address:  
  • Prof. Dr. Ir. Sutrisno, M.Agr. – IPB (General Chair of MEBSE 2018)  
  • Assoc. Prof. Ts. Dr. Shahriman Abu Bakar - UniMAP |
| 08.40 – 08.50 | Welcoming address from Rector of Bogor Agricultural University (IPB) continued with official opening of MEBSE 2018:  
  • Prof. Dr. Ir. Dodik Nur Rahmat. |
| **08.50 - 09.00** | **Plenary Session I**  
  Moderator: Prof. Dr. Ir. Herry Suhardiyanto, M.Sc. |
| 09.00 – 09.25 | “Technologies Required to Improve Agricultural Production System in Indonesia”  
  Dr. Daisuke Miyamoto – Deputy Director of YARI |
| 09.25 – 09.50 | “Artificial Olfaction: The Future Smells Good”  
  Prof. Dr. Abdul Hamid Adom - UniMAP |
| 09.50 – 10.15 | Discussion                                                                                   |
| 10.15 – 10.30 | Photo Session + Coffee Break                                                                 |

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| 10.30 – 14.45 | **Plenary Session II**  
  Moderator: Dr. Ir. Desrial, M.Eng |
| 10.30 – 10.55 | “The Critical Interplay of Precision Agriculture, Agricultural Engineering, and Biosystem Engineering”  
  Prof. Dr. Ir. Kudang B. Seminar, M.Sc.: IPB |
| 10.55 – 11.20 | “Industry Revolution 4.0: Status, Challenges & Issues in Malaysia”  
  Ir. Prof. Dr. R. Badlishah Ahmad - UniMAP |
| 11.20 – 11.45 | Discussion                                                                                   |
| 11.45 – 13.00 | Lunch Break                                                                                  |

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

**15TH December 2018 - 14:00-17:00**

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

**TOPIC:** Mechatronics, Ergonomics, and Biomedical Engineering

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<th>Pres. Code</th>
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<th>Paper Title and Author</th>
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| A-1-01     | 07       | **Muscle Fatigue Recognition During Arm Movement Using EMG signal**  
Basri Noor Cahyadi, Wan Khairunizam Wan Ahmad |
| A-1-02     | 19       | **Analysis of Human Behaviour while Control the Steering Wheel of a Buggy Electric Vehicle (EV)**  
Abdul Hafiz Abd Halin, Wan Khairunizam Wan Ahmad |
| A-1-03     | 32       | **Enhancement of Motor Imagery Brain Computer Interface performance Using Channel Reduction Method based on Statistical Parameters**  
Mohd Shuhanaz Zanar Azalan, Abdul Hamid Adom, Paulraj M P |
| A-1-04     | 63       | **Stacked Stepped-Fed Super Wideband Antenna Performance in Free Space and Liquid Medium for Biomedical Applications**  
Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad and Aminudin Jamlos |
| A-1-05     | 68       | **Analysis of EEG Spectrum Bands using Power Spectral Density for Pleasure and Displeasure State**  
Anis Ameera Md Anuar Musaddad, Saidatul Ardeenawatie Awang and Zunaidi Ibrahim |
| A-1-06     | 69       | **Exploring EEG based Authentication for Imaginary and Non-imaginary tasks using Power Spectral Density Method**  
Chin Tze Zhi, Saidatul Ardeenawatie Awang and Zunaidi Ibrahim |
| A-1-07     | 03       | **Investigation of Upper Limb Muscle Contraction based on Movement Sequence Pattern by Using sEMG Signal**  
Wan Khairunizam Wan Ahmad, Basri Noor Cahyadi |
| A-1-08     | 70       | **PSD-based Features Extraction for EEG Signal during Typing Task**  
Ng Wei Bin, Saidatul Ardeenawatie Awang and Chong Yen Fook |
### MEBSE 2018 – PARALELL SESSION I

15TH December 2018 - 14:00-17:00

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

TOPIC: Fluid Thermal and Energy Conversion

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| B-1-01     | 26       | Root Zone Temperature Distribution during Root Zone Cooling in Hydroponic System under Tropical Greenhouse  
             Herry Suhardiyanto, Agus Ghauntsun Niam |
| B-1-02     | 40       | Experimental Study of Compact Multi-Pass Evaporator Two Phase Flow  
             Rhenita Heng, Zuradzman Mohamad Razlan |
| B-1-03     | 42       | Analysis of fluid flow in modenas motorcycle exhaust pipe (modenas CT 110)  
             Mohd Asrul Md Saad, and Zuradzman Mohamad Razlan |
| B-1-04     | 43       | Experimental study of two phase flow distribution behavior in vertical downward multi-pass channel  
             Rhenita Heng, and Zuradzman Mohamad Razlan |
| B-1-05     | 36       | Simulation On Natural Convection Semi-Glazed Flat Plate Solar Collector For Green Bell Pepper Drying Application  
             Leopold Nelwan |
| B-1-06     | 59       | Design Modification of Greenhouse Effect Solar-Hybrid Rack Type Dryer  
             Dyah Wulandani, Sri Endah Agustina, Muhammad Yulianto, Leopold O. Nelwan, Lilik M. Rahman and Slamet Widodo |
| B-1-07     | 31       | Spouted Bed Drying of White Pepper (Piper nigrum L.) with Microwave Preheating Treatment  
             Edy Hartulistiyoso, Y. Aris Purwanto, Andi M. Akrham Mukhlis |
| B-1-08     | 35       | Effect Of Voltage And Frequency In Pasteurization Pulsed Electric Field (Pef) Continuous System Of Pineapple (Ananas Comosus [L.] Merr) Juice  
             Dina Wahyu Indriani, Sumardi Hadi Sumarlan, Syahnaz Amalia |
### MEBSE 2018 – PARALELL SESSION I

15TH December 2018 - 14:00-17:00

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

TOPIC: Postharvest, Food, and Biosystem Engineering

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<tr>
<th>Pres. Code</th>
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<tr>
<td>C-1-01</td>
<td>09</td>
<td>Synthesis of Slow Release Fertilizer from Rice Straw/UB Coated with SMR L Assc Prof Dr Nik Noriman Zulkepli</td>
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<tr>
<td>C-1-02</td>
<td>50</td>
<td>Prediction of Ethylene Production Rate of Barangan Banana using Kinetic Enzymatic Michaelis-Menten Arief Fazlul Rahman, Emmy Darmawati, Usman Ahmad</td>
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<tr>
<td>C-1-03</td>
<td>10</td>
<td>Characterization of Slow Release Fertilizer from Epoxidized/Rice Straw/Urea Bead on FTIR and UV-Vis Assc Prof Dr Nik Noriman Zulkepli</td>
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<tr>
<td>C-1-04</td>
<td>51</td>
<td>Single packaging design of papaya (Carica papaya. L) variety IPB 9 (Calina) for transportation and distribution Pandu Legawa Ismaya, Emmy Darmawati, Setyadjit Setyadjit</td>
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<td>C-1-05</td>
<td>15</td>
<td>Colour Component Analysis Approach for Malaria Parasites Detection Based on Thick Blood Smear Images Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad, Aimi Salihah Abdul Nasir</td>
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<tr>
<td>C-1-06</td>
<td>53</td>
<td>Effects of slurry concentration and rotational speeds of drum drier to the characteristics of pregelatinized breadfruit (Artocarpus altilis) flours Titi Candra Sunarti, Wenny Silvia Loren Br Sinaga, Chilwan Pandji</td>
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<td>C-1-07</td>
<td>57</td>
<td>Determination of Mung Bean Seed Viability Change in Vacuum Packaging during Storage in Different Temperatures Muhammad Faisal, Usman Ahmad, Dyah Wulandani and Slamet Widodo</td>
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<tr>
<td>C-1-08</td>
<td>58</td>
<td>Maintenance Cost Reduction of Paddy Seed Production Machinery by Implementing Preventive Maintenance System Setyo Pertiwi, Wawan Hermawan, Endah Prahmawati and Slamet Widodo</td>
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<td>Pres. Code</td>
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| D-1-01    | 48      | Low-Complexity Distributed SDN Controller Environments on Switch Migration Testbed  
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      | Performance Analysis of Software Defined Network in Link Failure Scenarios  
Muhammad Afiq Izzudin Mohd Sakari, Naimah Yaakob, Amiza Amir, R. Badlishah Ahmad, Mohd. Nazri Mohd. Warip |
| D-1-03    | 29      | Distributed Online Averaged One Dependence Estimator (DOAOE) Algorithm for Multi-Class Classification of Network Anomaly Detection System  
Mukrimah Nawir, Amiza Amir, Naimah Yaakob, R. Badlishah Ahmad, Mohd Nazri Mohd Warip |
| D-1-04    | 52      | Design of online application for agricultural machinery service based on android operating system  
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| D-1-05    | 47      | Fragmentation in MAC IEEE 802.15.4 to Improve Delay Performance in Wireless Body Area Network (WBAN)  
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| D-1-06    | 55      | Predicting The Identity Of A Person Using Aggregated Features Of Handwriting  
Hariraj Venketkumar, Wan Khairunizam, Rajkumar Janani |
| D-1-07    | 76      | Spectral Efficiency Improving Technique in OCDMA-VLC System for IoT Application using Catenated-OFDM Modulation Scheme  
Norizan Mohamed Nawawi and Anuar Mat Safar |
| D-1-08    | 66      | Performance analysis of Software Defined Network (SDN) in link failure scenario  
Naimah Yaakob, Muhammad Afiq Izzudin Mohd Sakari, Amiza Amir, R. Badlishah Ahmad, Mohd Nazri Bin Mohd Warip and Zunaidi Ibrahim |
**MEBSE 2018 – PARALELL SESSION II**
16TH December 2018 - 08:30-10:30
VENUE: ROOM A (Meeting Room – Faculty of Agricultural Engineering and Technology)
TOPIC: Mechatronics, Ergonomics, and Biomedical Engineering

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| A-2-01     | 14       | **A Comprehensive Review on Document Image (DIBCO) Database**  
Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad |
| A-2-02     | 71       | **Non Linear Features Analysis between Imaginary and Non-imaginary Tasks for Human EEG-based Biometric Identification**  
Ong Zhi Ying, Saidatul Ardeenawatie Awang and Vikneswaran Vijean |
| A-2-03     | 16       | **Image Segmentation Approach for Acute and Chronic Leukaemia Based on Blood Sample Images**  
Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad, Aimi Salihah Abdul Nasir |
| A-2-04     | 74       | **EMD Based EEG Analysis for User Authentication Using Typing Task**  
Intan Amalina Abdul Rahim, Saidatul Ardeenawatie Awang and Chong Yen Fook |
| A-2-05     | 30       | **Analysis of Spatial Distribution of Soil Moisture Content for Different Soil Layers in Harumanis Greenhouse**  
Fatnin Nazifa Mohamad Zalani, Fathin Ayuni Azizan, Arravinthen Nagarajan, Aimi Athirah Aznan, Rashidah Ruslan |
| A-2-06     | 54       | **Tumor Detection via Specific Absorption Rate Technique Using Ultra-Wideband Antenna**  
Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad and Aminudin Jamlos |
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| B-2-01     | 60      | **Modification Effect Of Vertical Partition On Kiln Drum Performance For Coconut Shell Carbonization**  
Lilis Sucahyo and Mu’minah Mustaqimah |
| B-2-02     | 72      | **Pellet Mill Fixed Dies Type for Production of Solid Fuel Pellets from Acacia mangium Bark**  
Rengga Arnalis Renjani and Dyah Wulandani |
| B-2-03     | 75      | **Energy and Exergy Analysis on Pyrolysis Process of Oil Palm Empty Fruit Bunch**  
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| B-2-04     | 22      | **An Overview on Overvoltage Phenomena in Power Systems**  
Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad, Nur Khairul Hafizi Rohani |
| B-2-05     | 28      | **Research & Development (R&D) in Strategic Production of a Safest Car**  
Aidanazima Abashah |
| B-2-06     | 41      | **Analysis Of Relation Between Propulsion Angle And Thrust Generation Of Sea-Eye**  
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### MEBSE 2018 – PARALELL SESSION II

**16TH December 2018 - 08:30-10:30**  
**VENUE: ROOM C (Meeting Room – Department of Food Science and Technology)**  
**TOPIC: Postharvest, Food, and Biosystem Engineering**

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| C-2-01 | 11 | **The Effects of Epoxidized Natural Rubber Coating on Rice Straw for Slow Release Fertilizer Application**  
Assoc Prof Dr Nik Noriman Zulkepli |
| C-2-02 | 64 | **Prediction Shelf Life of Arabica Java Preanger Coffee Beans under Hermetic Packaging Using Arrhenius Method**  
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| C-2-03 | 61 | **Synthesis and characterization of aloe vera-based edible film incorporated with shellac resin and hydrocolloids**  
Nanik Purwanti, Fajri Yunus and Emmy Darmawati |
| C-2-04 | 12 | **Investigation of New Slow Release Material from Rice Husk/UB/Natural Rubber Composites**  
Assoc Prof Dr Nik Noriman Zulkepli |
| C-2-05 | 18 | **Monitoring of Mango Leaves Area and Chlorophyll Content using SPAD and Leaf Area Meter**  
Normardhiyah Roslan, Aimi Athirah Aznan, Rashidah Ruslan, Mahmad Nor Jaafar, Fathin Ayuni Azizan |
| C-2-06 | 49 | **Geometrical and Mechanical Performance of Multi-Material Fused Deposition Modelling**  
Nindya Aprilia Alief, Yudan Whulanza, Muhammad Satrio Utomo |
**MEBSE 2018 – PARALELL SESSION II**

**16TH December 2018 - 08:30-10:30**

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

**TOPIC:** Network, Data, and Automation

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| D-2-01     | 13       | **Navigation Mobile Apps Utilization and K–MACS Algorithm for VRPTW Model of Fruits Distribution**  
Sri Hartati, Kudang B. Seminar, Sutrisno |
| D-2-02     | 39       | **Car Automotive Machine Operation And Start With Sound Commands Based On Arduino Uno Using Smartphone**  
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| D-2-03     | 34       | **Automated Chicken Weighing System using Wireless Sensor Network for Poultry Farmers**  
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| D-2-04     | 73       | **Estimating Greenhouse Gas Emissions from Irrigated Paddy Fields in Indonesia under Various Water Managements**  
Chusnul Arif |
| D-2-05     | 01       | **Automated Spray Painting System (ASPS) For Aerospace Composites Malaysia (ACM) SDN BHD**  
Zunaidi Ibrahim and Mohd Rudzuan Mohd Nor |
| D-2-06     | 02       | **Simulation Studies - Path Tracking of an Autonomous Electric Vehicle (AEV) by using Fuzzy Information of Speed and Steering Angle**  
Wan Khairunizam Wan Ahmad, Abdul Hafiz Abd Halin |
### MEBSE 2018 – PARALELL SESSION III

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

**TOPIC:** Mechatronics, Ergonomics, and Biomedical Engineering

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| A-3-01     | 04       | *Computational Investigation of Breast Cancer on Mammogram based on Patterns of Color Distribution*  
Wan Khairunizam Wan Ahmad, Zunaidi Ibrahim |
| A-3-02     | 06       | *Development of Predictive Models for Cervical Cancer Based on Gene Expression Profiling Data*  
Azian Azamimi Abdullah, Wan Khairunizam Wan Ahmad |
| A-3-03     | 21       | *Document Images Binarization Using Hybrid Combination of Fuzzy C-Means and Deghost Method*  
Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad |
| A-3-04     | 33       | *EEG Data Collection Based on Task of Images for Neuron Motor Disorder Patient*  
Erdy Sulino Mohd Muslim Tan, Abdul Hamid Adom, Marni Azira Markom, Hakimah Osman |
| A-3-05     | 65       | *Image Enhancement Based on Discrete Cosine Transforms (DCT) and Discrete Wavelet Transform (DWT): A Review*  
Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad and Aminudin Jamlos |
| A-3-06     |          |                        |
| A-3-07     |          |                        |
| A-3-08     |          |                        |
### MEBSE 2018 – PARALELL SESSION III

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

**TOPIC:** Fluid Thermal and Energy Conversion

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| B-3-01     | 44       | **Analysis Study Of Relation Between UAV’s Motor Support Bar Length And The UAV Control Systems**  
Muhammad Zikri Zakariya, and Zuradzman Mohamad Razlan |
| B-3-02     | 45       | **Experimental study of UAV propeller Thrust generation for various Propeller Blade-Span and the relation with mouth-ring**  
Mohd Najib Khir Othman, and Zuradzman Mohamad Razlan |
| B-3-03     | 46       | **Dynamic Analysis of UAV’s Motor Support Bar Length Control System**  
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| B-3-04     | 08       | **Photocatalytic Activity of Metal Oxide and Activated Carbon for Waste Water Treatment - A Review**  
Assoc Prof Dr Nik Noriman Zulkepli |
| B-3-05     |          |                        |
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### MEBSE 2018 – PARALELL SESSION III

16TH December 2018 - 11:00-12:40

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

TOPIC: Postharvest, Food, and Biosystem Engineering

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| C-3-01     | 17      | Blood Vessel Extraction Using Combination of Kirsch’s Templates and Fuzzy C-Means (FCM) on Retinal Images  
Wan Azani Wan Mustafa, Wan Khairunizam Wan Ahmad |
| C-3-02     | 23      | Morphological Features Selection of Malaysian Rice Seed Varieties using Discriminant Function Analysis  
Rashidah Ruslan, Siti Khairunniza Bejo, Aimi Athirah Aznan, Ibni Hajar Rukunuddin |
| C-3-03     | 56      | The Study Quality Parameters of Yellow Matoa Fruit (Pometia pinnata) Using Digital Image Processing  
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| C-3-04     | 67      | Prediction of Leaf Color Level and Chlorophyll Content of Corn (Zea mays L.) by Using Mobile Phone  
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| C-3-05     |         |                       |
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### MEBSE 2018 – PARALELL SESSION III

**16TH December 2018 - 11:00-12:40**  
**VENUE:** ROOM D (Meeting Room – Department of Agroindustrial Technology)  
**TOPIC:** Network, Data, and Automation

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