

CURRICULUM VITAE



MAHIRAH BINTI JAHARI

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Education			
No	Major/ Degree	Institution or University	Year
1.	Bachelor of Engineering (Biological and Agricultural)	Universiti Putra Malaysia	2003
	Research Title: A Density and An Image Processing Approach for Agarwood Chips Grading		
2.	Master of Science (GIS and Geomatic Engineering)	Universiti Putra Malaysia	2007
	Research Title: Change Detection in Mangrove Forest Areas using Local Similarity Measure		
3.	Doctor of Philosophy (Agriculture)	Kyoto University	2011
	Research Title: Double Lighting Machine Vision System for Rice Quality Evaluation		

Areas of Interest	
1.	Imaging Technology
2.	Artificial Intelligence
3.	Precision Agriculture
4.	Quality Assessment for Agricultural Products

Professional Membership & Learned Society	
1.	Board of Engineers Malaysia (BEM)
2.	Malaysian Society of Agricultural Engineers (MSAE)
3.	Institution of Geospatial and Remote Sensing Malaysia (IGRSM)
4.	The Japanese Society of Agricultural Machinery and Food Engineers (JSAM)
5.	Malaysia Board of Technologist (MBOT)
6.	Kyoto Alumni Association Malaysia
7.	Golden Key International Honor Society, University Putra Malaysia Chapter
8.	Persatuan Pegawai Akademik UPM (PPAUPM)

Appointments	
Position	Duration
1. Students and Alumni Coordinator, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2023 – to date
2. Member of the University Curriculum Sub-Committee	2023 – to date
3. Head of Spatial Laboratory, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2024 – to date
4. Alumni Coordinator, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2022

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| 5. | Academic Coordinator II, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM | 2019 – 2022 |
| 6. | Promotion Coordinator, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM | 2017 – 2019 |
| 7. | Junior Associate Researcher, Smart Farming Technology Research Centre, UPM | 2018 – to date |
| 8. | Senior Lecturer, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM | 2017 – to date |
| 9. | Tutor, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM | 2008 - 2017 |
| 10. | Graduate Research Assistant, Faculty of Engineering, UPM | 2007 - 2008 |

Publications

Journals and Proceedings

1. Mohd Ali, M., Hashim, N., Bejo, S.K., **Jahari, M.** and Shahabudin, N.A. 2023. Innovative non-destructive technologies for quality monitoring of pineapples: Recent advances and applications. Trends in Food Science & Technology 133, 176–188.
2. Jimoh, K. A., Hashim, N., Shamsudin, R., Che Man, H. and **Jahari, M.** 2023. Recent advances of optical imaging in the drying process of grains – A review. Journal of Stored Products Research, 103, 102145.
3. Ibrahim, M.F.; Khairunniza-Bejo, S.; Hanafi, M.; **Jahari, M.**; Ahmad Saad, F.S.; Mhd Bookeri, M.A. Deep CNN-Based Planthopper Classification Using a High-Density Image Dataset. Agriculture 2023, 13, 1155. <https://doi.org/10.3390/agriculture13061155>. (Q1) (JCR)
4. Maimunah Mohd Ali, Norhashila Hashim, Siti Khairunniza Bejo, **Mahirah Jahari**, Nurul Aqilah Shahabudin (2023). Innovative non-destructive technologies for quality monitoring of pineapples: Recent advances and applications, Trends in Food Science & Technology, 133(2023):176-188. <https://doi.org/10.1016/j.tifs.2023.02.005>. (Q1) (JCR).
5. Yong, L.Z., Khairunniza-Bejo, S., **Jahari, M.**, Muharam, F.M. Automatic Disease Detection of Basal Stem Rot Using Deep Learning and Hyperspectral Imaging. Agriculture 2023, 13, 69. <https://doi.org/10.3390/agriculture13010069> (Q1) (JCR).
6. Ruslan R, Khairunniza-Bejo S, **Jahari M**, Ibrahim MF (2022). Weedy Rice Classification Using Image Processing and a Machine Learning Approach. Agriculture. 2022; 12(5):645. <https://doi.org/10.3390/agriculture12050645> (Q1) (JCR).
7. Aiman Nabilah Noor Azmi, Siti Khairunniza-Bejo, **Mahirah Jahari**, Farrah Melissa Muharam, and Ian Yule. (2021). Identification of a Suitable Machine Learning Model for Detection of Asymptomatic Ganoderma boninense Infection in Oil Palm Seedlings Using Hyperspectral Data. Applied Sciences, 2021, 11, 11798. 8. <https://doi.org/10.3390/app112411798> (Q2). (JCR)
8. Khairunniza-Bejo, Siti, Muhamad S. Shahibullah, Aiman N.N. Azmi, and **Mahirah Jahari** (2021). Non-Destructive Detection of Asymptomatic Ganoderma boninense Infection of Oil Palm Seedlings Using NIR-Hyperspectral Data and Support Vector Machine. Applied Sciences, 11(22): 10878. <https://doi.org/10.3390/app112210878> (Q2). (JCR)
9. Aiman Nabilah, N.A., Khairunniza-Bejo, S., **Mahirah, J.**, Muharram, F.M., Yule, I. (2021). Differences between healthy and Ganoderma boninense infected oil palm seedlings using spectral reflectance of young leaf data. Basrah J. Agric. Sci., 34(Special Issue 1): 171-179, 2021. (Scopus index).
10. Aiman Nabilah Noor Azmi, Siti Khairunniza-Bejo, **Mahirah Jahari**, Farrah Melissa Muharam, Ian Yule and Nur Azuan Husin. (2020). Early Detection of Ganoderma boninense in Oil Palm Seedlings Using Support Vector Machines. Remote Sensing, 12(3920): 1-23. (Q1). (JCR)
11. Ruslan, R., Khairunniza-Bejo, S., Rukunudin, I.H, **Jahari, M.** and Ibrahim, M.F. (2020). Development of a machine vision system for rice seed inspection system. Food Research 4 (Suppl. 6): 150 - 156. (Scopus index.)
12. Hamzah, M.H., Khairudin, N., Mohd Mustafah, A., **Mahirah, J.**, Diyana, J., STEM Enculturation in Agricultural Engineering: The Needs for Government, Academia, Industry and Community Collaborations. Adv Agri Food Res J 2020; 1(1): a0000081. <https://doi.org/10.3687/aafrj.a0000081>

13. **Jahari, M.**, K., Yamamoto, M., Miyamoto, N., Kondo, Y., Ogawa, T., Suzuki, H., Habaragamuwa, U., Ahmad, 2017. Monitoring Harvested Paddy During Combine Harvesting Using A Machine Vision-Double Lighting System. *Engineering in Agriculture, Environment and Food (EAEF)* 10, 140–149. doi:10.1016/j.eaef.2016.12.001 (Cited in Scopus)
14. **Mahirah, J.**, K., Yamamoto, M., Miyamoto, N., Kondo, Y., Ogawa, T., Suzuki, H., Habaragamuwa, U., Ahmad, 2015. Double Lighting Machine Vision System to Monitor Harvested Paddy Grain Quality during Head-Feeding Combine Harvester Operation. *Machines* 3, 352–363. doi:10.3390/machines3040352
15. **Jahari, M.**, Khairunniza-Bejo, S., Shariff, A.R.M. and Shafri, H.Z.M. (2011). Change Detection Studies in Matang Mangrove Forest Area, Perak. *Pertanika Journal of Science and Technology*, 19(2): 307 – 327. (Scopus index)
16. Lai Zhi Yong, Siti Khairunniza-Bejo, **Mahirah Jahari**, Farrah Melissa Muharam (2023). Automatic detection of an early stage of basal stem rot disease infection using VGG16 and mask R-CNN. *IOP Conf. Series: Earth and Environmental Science* 1133 (2023) 012076. (Scopus index).
17. **Mahirah, J.**, Dimas, F.A.R., Widodo, S., Suzuki, T, Ogawa, Y, Nondo, N, 2019. Rice Quality Assessment Using Fluorescence Imaging Technique. In *Proceedings of the Konvensyen Kebangsaan Kejuruteraan Pertanian Dan Makanan 2019 21 Mac 2019*, Wisma Tani, Kementerian Pertanian Malaysia, Putrajaya.
18. **Mahirah, J.**, K., Yamamoto, M., Miyamoto, N., Kondo, Y., Ogawa, 2013. Monitoring System for Harvested Rice Grains Qualities. *Proceeding of the 130th JSAM Annual Meeting*, 31 Oct - 1 Nov, Mie University, Mie, Japan.
19. **Mahirah, J., K.**, Yamamoto, M., Miyamoto, N., Kondo, Y., Ogawa, 2013. Monitoring System for Yield Qualities of Paddy. *SPIE, Proceeding of SetBio 2013 Conference*, 23-25 April, Pacifico Yokohama, Japan.
20. **Mahirah, J.**, K., Yamamoto, M., Miyamoto, N., Kondo, Y., Ogawa, 2012. Detection of Harvested Grain Quality by Using Web Camera. *Proceeding of the 128th JSAM Annual Meeting*, 11Aug – 12 Aug, Tottori University, Tottori, Japan.
21. **Jahari, M.**, Khairunniza-Bejo, S., Shariff, A.R.M. and Shafri, H.Z.M. (2010). Performance of Local Mutual Information in Different Band of SPOT 5 Satellite Images to Detect Changes in Forest Areas. In *Proceedings of MRSS 6th International Remote Sensing and GIS Conference and Exhibition*, 28-29 April 2010, PWTC, Kuala Lumpur, Malaysia, p. 48.
22. Khairunniza-Bejo, S., Ahmad, D. and **Jahari, M.** (2009). Benchmarking of Bachelor of Agricultural and Biosystems Engineering Programme in Malaysia. *International Conference on Engineering and Education in the 21st Century (ICEE 2009)*, 23-25 March 2009, Majestic Riverside, Kuching, Malaysia, p.1- 5.
23. **Jahari, M.**, Khairunniza-Bejo, S., Shariff, A.R.M., Shafri, H.Z.M. and Ibrahim, H. (2008). Change Detection using Local Similarity Measure. In *Proceedings of the Conference on Innovative Technologies in Intelligent Systems and Industrial Applications*, 4607332: 39-43. (Scopus index).
24. Khairunniza-Bejo, S., **Jahari, M.**, Jamaludin, H. and Osman, F. (2007). Image Analysis for Agarwood Chips Grading. *The World Engineering Congress 2007*, 5-9 August 2007, Penang, Malaysia, p. 129-134.

Book

1. Aiman Nabilah Noor Azmi, Siti Khairunniza-Bejo, **Mahirah Jahari** and Ian Yule (2023). Early Detection of Plant Disease Infection Using Hyperspectral Data and Machine Learning. Chapter in *Book: IoT and AI in Agriculture*, Springer Nature, p 1-19. DOI : 10.1007/978-981-19-8113-5.
2. Anas Mohd Mustafah, Diyana Jamaludin, **Mahirah Jahari**, Muhammad Hazwan Hamzah, Nurulhuda Khairudin, (2019). *Urban Agrischool: Urban Agriculture Education through the Greenhouse Module*. Pertandingan Rekacipta Inovasi Nasional-Kejuruteraan dan Alam Bina (PRIN-KAB), Universiti Kebangsaan Malaysia, Selangor, Aug 26, 2019.

Press Release and Professional Magazine

1. Khairunniza-Bejo, S., **Jahari, M.**, Shariff, A. R. M. and Shafri, H. Z. M. (2011) Mapping Mangrove Biomass. *Press Release, PRWeb UK*, 27 Nov. 2011

Intellectual Properties

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1. D Jamaludin, AM Mustafah, MH Hamzah, **M Jahari**, N Khairuddin. Urban Agriculture Education Through the Concept of Green Walls -Student Module. 2021. LY2021E06094
2. D Jamaludin, AM Mustafah, MH Hamzah, **M Jahari**, N Khairuddin. Urban Agriculture Education Through the Concept of Green Walls -Instructor Module. 2021. LY2021E06096
3. Jamaludin, D., **Mahirah, J.**, Nurulhuda, K., Muhammad Hazwan, H., Anas, M. M., Urban Agrischool: Greenhouse Literacy Work, LY2019006287
4. Khairunniza-Bejo, S., **Jahari, M.**, Shariff, A.R.M. and Shafri H.Z.M. Local Mutual Information for Forest Monitoring version 1.0 (LMI v1.0).
5. Khairunniza-Bejo, S., **Jahari, M.**, Shariff, A.R.M. and Shafri, H.Z.M. Local Mutual Information for Forest Monitoring version 2.0 (LMI v2.0).

Research Grant				
	Project Title	Amount	Year	Source of Fund
1.	Machine Vision System for Rice Quality Evaluation Using Fluorescence Technique (Leader)	RM 60,000.00	2018 - 2023	Geran Putra (IPM)
2.	Beyond Silos: Enhancing Transdisciplinary Engagement Among Engineering Students Through First-Year Seminar (Member)	RM 20,000.00	2021 – to date	Geran GIPP
3.	Agri Cilik Hidroponik Pertanian Bandaran untuk Taski ABIM Cawangan (Member)	RM 5,000.00	2023 - 2024	Knowledge Transfer Grant Scheme (KTGS@PTJ)

Professional Services (Journal Reviewer, editorial works, etc.)		
No	Role	Title
1.	Editorial Board / Guest Editor	<ol style="list-style-type: none"> 1. International Conference on Agricultural Engineering for Sustainable Agricultural Production (AESAP 2019) 2. E-proceeding for International Conference on Agricultural & Food Engineering (CAFEi2018)
2.	Journal Reviewer	<ol style="list-style-type: none"> 1. Journal of the ASABE 2. Journal of Agricultural Science 3. Agricultural and Food Research Journal 4. International Journal of Pest Management 5. Journal of Marine Science and Engineering 6. Journal of Engineering in Agriculture, Environment and Food 7. Journal of Physiological and Molecular Plant Pathology 8. Remote Sensing 9. Smart Agricultural Technology 10. Journal of Agronomy 11. Journal of Oil Palm Research 12. Journal of Applied Science and Technology 13. Journal of Science and Technology 14. Journal of Scientific Research and Reports 15. Journal of Engineering Research and Reports 16. CAFEi2018 17. Journal of Computers and Electronics in Agriculture 18. Journal of Applied Science and Technology 19. Journal of Spectroscopy Letters 20. Journal of Information Processing in Agriculture

	<ol style="list-style-type: none"> 21. Journal of Nondestructive Evaluation 22. International Conference on Sustainable Future for Human Security 23. Scientific Reports 24. Information Processing in Agriculture 25. Food Packaging and Shelf Life 26. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 27. IEEE Frontiers in Education Conference (FIE 2024) 28. 1st Agritech Research and Entrepreneurship Innovation (AGREETION 2022) 29. CAFEi2023
3. Invited Speaker	<ol style="list-style-type: none"> 1. Program Kerjaya Teknokrat, Kolej Matrikulasi Melaka (2018) 2. Program Pembedugaran Minda Pasca Ujian Akhir Sesi Akademik (UASA) Tingkatan 3 3. International Lectures on Agricultural and Biosystem Engineering (ABE). Guest Lecture 1: Rice Quality Evaluation Using Machine Vision System. Lampung University 4. Program Pemindahan Ilmu (PUTRAPIL) Pertanian, Penternakan dan Perikanan @ Bera, Pahang
4. Jury	<ol style="list-style-type: none"> 1. Agritech Research and Entrepreneurship Innovation (AGREETION 2022) 2. Agritech Research and Entrepreneurship Innovation (AGREETION 2024) 3. Program Pertandingan Inovasi Inter-Asasi Matrikulasi 2023 (Pitram2023)
5. Facilitator / Instructor	<ol style="list-style-type: none"> 1. Kesetaraan Kursus Massive Open Online Course (MOOC) dan Micro-Credential (MC) 2024 2. ExploENG: Summer Programme 2023 3. Program Sekolah Lestari Malaysia: Pemindahan Ilmu Urban Agrischool Dinding Hijau 2021 4. Program Global I-LEAD STEM UPM & PIBG SBPI Selandar, Faculty of Engineering, Asasi Pertanian and Faculty of Sciences, UPM 5. Urban Agrischool community project: Teaching module design and program implementation for urban agriculture in Sekolah Kebangsaan Sedenak, Johor 6. Team Coach, UPM – SITEL Program (Assistant Team Coach). 7. Program Pemindahan Ilmu Kepada Masyarakat Orang Asli dengan kerjasama Islamic Relief Malaysia (IRM).
6. Committee Member	<ol style="list-style-type: none"> 1. International Seminar on Intelligent technology and Its Applications (ISITIA) 2024 – Technical Committee 2. The Frontier in Education (FIE 2024) - Technical Committee 3. 9th Southeast Asian Agricultural and Food Engineering Student Chapter Annual Regional Convention, 2023 (Co-Chairperson) 4. 6th International Conference on Agricultural and Food Engineering (Cafei2023) – Deputy Director of Souvenir Committee 5. Spectroscopy and Imaging Workshop CIGR Congress 2022 – Organizing Committee



6. 5th International Conference on Robotics, Control and Automation Engineering (RCAE 2022)
7. 5th International Conference on Agricultural and Food Engineering (Cafei2021) –
8. 4th International Conference on Agricultural and Food Engineering (Cafei2021) – Scientific Committee
9. Yunus Social Business Centre (YSBC@PM) - Committee
10. The 3rd International Conference on Robotics, Control and Automation Engineering (RCAE2020) – Technical Committee
11. Social Innovation through Team Entrepreneurial Learning (SITEL) training program – Assistant Coach
12. Urban Agrischool community project: Teaching module design and program implementation for urban agriculture in Sekolah Kebangsaan Sedenak, Johor (Member)
13. Konvensyen Kebangsaan Kejuruteraan Pertanian dan Makanan 2019 (Registration Secretariat)
14. 5th Southeast Asian Agricultural and Food Engineering Student Chapter Annual Regional Convention, 2023 (Treasurer)
15. Konvensyen Kebangsaan Kejuruteraan Pertanian dan Makanan 2019 (Registration Secretariat)

7. Advisor of Inbound Mobility Program

1. Universitas Brawijaya
2. Universitas Sebelas Maret
3. Universitas Andalas
4. Kasesart University Thailand
5. University of Tsukuba Japan
Tamil Nadu Agricultural University (Industrial Training)

Teaching and Learning Activities

1. Teach the following undergraduate courses:
EAB3606 : Agricultural Information
ECC3014 / ENG3004 : Statistics
ECC3005 / ENG3202 : Computer Programming
EAB4947 : Agricultural and Biosystem Engineering Design Project (Group Supervisor)
2. Teach the following graduate courses:
EAB5412 : Information Engineering
3. Development of Modules:
 - D Jamaludin, AM Mustafah, MH Hamzah, M Jahari, N Khairudin. Pendidikan Pertanian Bandaran. Melalui Konsep Dinding Hijau-Modul Pelajar. 2021. LY2021E06094.
 - D Jamaludin, AM Mustafah, MH Hamzah, M Jahari, N Khairudin. Pendidikan Pertanian Bandaran. Melalui Konsep Dinding Hijau-Modul Pengajar. 2021. LY2021E06096.
 - AMM Mustafah, MH Hamzah, D Jamaludin, M Jahari, N Khairudin. Urban Agrischool: Greenhouse. 2019. LY2019006287.
4. Guest Lecturer at International Lectures on Agricultural and Biosystem Engineering (ABE). Guest Lecture Rice Quality Evaluation Using Machine Vision System. Lampung University
5. 9th Southeast Asian Agricultural and Food Engineering Student Chapter Annual Regional Convention (ARC 2023), 20-26 August 2023 Organizing committee - and Public Speaking instructor. ARC2023 was attended by undergraduate students from Malaysia, Indonesia, Philippines, and Thailand.

Awards/ Recognition					
No	Name of Awards	Title	Award Authority	Award Type	Year
1.	Anugerah Perkhidmatan Cemerlang	Anugerah Perkhidmatan Cemerlang 2023	UPM	University	2022
2.	Teaching Award	Certificate of Excellent in Teaching	Faculty of Engineering, UPM	Faculty	2022
3.	Best Project	Internet of Things for Smart Urban Farming (CSAgri) 2022	IPB University	International	2022
4.	Best Final Year Project Award	FYP Day (Evaluation of Roasted Coffee Bean Quality Using Machine Learning)	Faculty of Engineering	Faculty	2021
5.	Teaching Award	Certificate of Excellent in Teaching	Faculty of Engineering, UPM	Faculty	2021
6.	Gold Medal Poster Competition	7 th Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention 2021	MSAE	International	2021
7.	Gold Medal Model Construction Video Competition	7 th Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention 2021	MSAE	International	2021
8.	Gold Medal Poster: Reaching and Teaching: Hydroponic Technique as a Social Innovation	6 th Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention 2021	MSAE	International	2020
10.	Excellent Service Award	Excellence Achievement	Universiti Putra Malaysia, UPM	University	2019
11.	YSEALI Professional Fellowship	YSEALI Professional Fellowship	U.S Embassy & ICMA	International	2019
12.	Excellent Service Award	Excellence Achievement	Universiti Putra Malaysia, UPM	University	2018
13.	Teaching Award	Certificate of Excellent in Teaching	Faculty of Engineering, UPM	Faculty	2018
14.	Excellent Service	Excellence	Universiti Putra	University	2012

Award	Achievement	Malaysia, UPM		
15. Gold Medal	Mangrove Forest Mapping	Malaysia, UPM International Trade Fair "Ideas-Invention-New Products" (iENA), Germany	International	2012
16. Gold Medal	Mangrove Forest Mapping	Malaysia Technology Expo	National	2012
17. Gold Medal	Development of Mangrove Forest Monitoring Technique Using Local Similarity Measure	Pameran Reka Cipta, Penyelidikan dan Inovasi, UPM	University	2011
18. Excellent Service Award	Excellence Achievement Anugerah	Universiti Putra Malaysia, UPM	University	2010
19. Academic Award	Kecemerlangan FELCRA (Graduan Akademik Terbaik)	Faculty of Engineering	Faculty	2007

Industrial and Community Linkage

No	Activity	Year	Role
1.	Collaboration with Taman Suria Tropica, Putrajaya for Community Project : BAEGROW	2023	Member
2.	Collaboration with SMK Pengerang Utama Johor , Kean Beng Lee Industries (M) Baba, Farmers Boy , Agri Space Tech Sdn Bhd, Perniagaan Tan and Department of Agriculture Johor for Community Project, Greenwall Module	2021	Member
3.	Collaboration with Kulim (M) Sdn Bhd, Agri Space Sdn Bhd, SK Sedenak. For Urban Agrischool Programme (Greenhouse Module)	2019	Facilitator

Supervision

Students Name	Thesis Title	Level	Role	Graduation Year
Chang Xiao	On the Risk Assessment and Occupants Evacuation of High Rise Residential Buildings in Response to Fire and Flood Disasters Based on Building Information Modeling	PhD	Supervisor	Ongoing
Dashuraa Naaidu A/L Kalidas	Build an IoT Based Smart Irrigation System for Vertical Tower Farming	Undergraduate	Supervisor	Ongoing
Mohd Firdaus Ibrahim	Classification of Planthoppers on Light Trap using Deep Convolutional Neural Network	PhD	Co-Supervisor	Ongoing
Jimoh Kabiru Ayobami	Modelling And Optimization of Drying Process of Glutinous Rice	PhD	Co-Supervisor	Ongoing
Nurfadzilah Madian	Monitoring the effect of New Novel Biofertilizer on Nutrient and Growth Response of Cocoa Seedling using Spectroscopic Methods	PhD	Co-Supervisor	Ongoing



Zhou Yingqian	Nature-Based Solutions to Address Natural Disaster Risk Challenges in Urban Areas: An Integrated Framework Between Science, Policy and Practice	PhD	Co-Supervisor	Ongoing
Wan Mohamad Siraj Munir Bin Wan Hamat	Jackfruit Trees Detection and Counting using Image Processing.	Undergraduate	Supervisor	2017/2018
Diana Sabryna Sirah Anak Sabang	Detection of oil palm fronds by using vision system	Undergraduate	Supervisor	2018/2019
Chong Jia En	Development of Vision System for Rice Quality Evaluation using Fluorescence Technique	Undergraduate	Supervisor	2019/2020
Ernica Edwin	Multi Quality Parameters Assessment of Rice using Image Processing	Undergraduate	Supervisor	2019/2020
Nurul Najihah Binti Zulkifli	Machine Vision System for Rice Quality Evaluation using Fluorescence Imaging Technique	Undergraduate	Supervisor	2020/2021
Yap Ching Yee	Evaluation of Roasted Coffee Bean Quality Using Machine Learning	Undergraduate	Supervisor	2020/2021
Asrinah Datu Robinson	Light Illumination Effect on Pixel Values of The Defect And Non-Defect Areas on Oranges Using Vision System	Undergraduate	Supervisor	2021/2022
Nicholas Anak Lister Neddi	Evaluation of Roasted Coffee Bean Quality using Machine Learning	Undergraduate	Supervisor	2021/2022
Hasanah Johari	Effect of Different Storage Conditions on Moisture Content and Colour of Arabica Coffee	Undergraduate	Supervisor	2022/2023
Siti Hawa Fakhrolroji	Detection of Cocoa Maturity and Pest Attack Using Sound and Imaging Techniques	Undergraduate	Supervisor	2022/2023
Rashidah Ruslan	Development of rice Seed Identification Machine Vision System	PhD	Co-Supervisor	2022
Lai Zhi Yong	Automatic Early Detection of Ganoderma Boninense Infection in Oil Palm Seedlings Using Hyperspectral Remote Sensing and Deep Learning Technique	PhD	Co-Supervisor	2023
MELATIWATI OTHMAN	Maritime Security Best Practices in The Straits Of Malacca	Master	Supervisor	2020
Chong Jia En	Volume Estimation for Plant Phenotyping	Master	Co-Supervisor	2022
Aiman Nabilah Noor Azmi	Early Detection of Ganoderma Disease in Oil Palm Nursery using Machine Learning Spectral Analysis Technique	Master	Co-Supervisor	2021
Lyra Angelica	Sensory Profile Evaluation of Vegan Chocolate Using Rate-All-That-Apply (RATA) Method Based on Vegan and Non-Vegan Consumers	Undergraduate	Co-Supervisor	2023/2024



Related Experience

Year	Activities
2019	Incident Command System: Facilitative Instructor Course
2019	Incident Command System: Advanced Course
2019	Incident Command System: Logistics and Finance Course
2019	Incident Command System: Facilitative Instructor Course
2018	Social Innovation Through Team Entrepreneurial Learning (SITEL) Workshop
2018	Incident Command System: Planning Process Course
2018	Incident Command System: Basic and Intermediate Course