

CURRICULUM VITAE

TS GS DR NIK NORASMA CHE'YA



A. BUTIR-BUTIR PERIBADI (Personal Details)

Nama Penuh (Full Name)	NIK NORASMA BINTI CHE'YA		Gelaran (Title): DR
No. MyKad / No. Pasport (Mykad No. / Passport No.)	Warganegara (Citizenship) MALAYSIA	Bangsa (Race) MALAY	Jantina (Gender) FEMALE
Jawatan (Designation)	SENIOR LECTURER		

Alamat Semasa (Current Address)	Jabatan/Fakulti (Department/Faculty)	E-mel dan URL (E-mail Address and URL)
NO 35, JALAN MERAB 6/9A, DESA CAMELIA SG MERAB, 43000 KAJANG, SELANGOR Tel: +6011 3672 1385	DEPARTMENT OF AGRICULTURE TECHNOLOGY, FACULTY OF AGRICULTURE, UNIVERSITI PUTRA MALAYSIA Tel: +60389474892 Fax: +60389381015	E-mail: niknorasma@upm.edu.my URL: https://www.researchgate.net/profile/Nik-Cheya

B. KELAYAKAN AKADEMIK (Academic Qualification)

Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhususkan (Area of Specialization)
Ts (Professional Technologist)	MBOT Malaysia	2024	Geoinformatic and Geomatic Enginerring
Gs (Geospatialist)	IGRSM	2016	GIS and Remote sensing
Malaysian Society of Agricultural and Food Engineers (MSAE)	MSAE (A2391)	2016	Geoinformatics Engineering
PhD (Thesis title: Site-specific weed management using remote sensing)	The University of Queensland, Gatton, Australia	2016	Weed detection, drone application, GIS and precision agriculture
Master of GIS and Geomatic Engineering (Thesis title: Web-based GIS decision support system for precision farming)	Universiti Putra Malaysia	2010	Web-based GIS, GIS, open-source programming and precision agriculture
Bachelor of Science Geoinformatics (Title: Site suitability analysis for aquaculture area using GIS in Johor)	Universiti Teknologi Malaysia	2007	Geoinformatics (GIS)

C. KEMAHIRAN BAHASA (Language Proficiency)

Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	Amat Baik Very good (4)	Cemerlang Excellent (5)
English					/
Bahasa Melayu					/

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN <i>(Scientific experience and Specialisation)</i>				
Organization	Position	Start Date	End Date	Expertise
TROPICALMAP TALK SERIES 2023	Guest Lecture	17 October 2023	17 October 2023	GIS Applications in Agriculture
5th UC Faculty Forum 2023, Philippines	Guest Lecture	20 Sept 2023	21 Sept 2023	Drone in agriculture
Japan Geoscience Union Meeting	Oral Presenter	21 May 2023	26 May 2023	Drone in agriculture
Universitas Diponegоро, Indonesia; Smart Farming and Precision Agriculture Crop and Weed Management Using Remote Sensing	Guest Lecture	10 Oct 2022	10 Oct 2022	Invited speaker
40th Asian Conference on Remote Sensing - ACRS2019, Daejeon, Korea	Oral Presenter	14 October 2018	18 October 2019	Drone technology and Image processing
Newton Fund Workshop, UK	Climate Change and Urban Food Security	16 th July 2018	20 th July 2018	Food security and urban farming
UNIGIS International, the University of Salzburg Department for Geoinformatics - Z_GIS, Salzburg, Austria	ASEA Uninet Workshop smartFARMING	29th October 2018	2nd November 2018	Smart Farming
Bogor University, Indonesia	Geospatial Applications of Satellite-Generated Atmospheric and Climatic Data	23th October 2017	27 th October 2017	Geospatial and climate change
Harper Adams University, United Kingdom	Participant on Agri-tech Growth and Resources for Innovation Workshop 2	4 th December 2017	6 th December 2017	Precision Agriculture, Digital Farming and Instrumentation
Manchester University, United Kingdom	Visiting Scholar and potential collaboration	7 th December 2017	7 th December 2017	Remote sensing and precision agriculture
National Institute of Botanical Agriculture (NIAB), United Kingdom	Field Trip and potential collaboration on Remote Sensing Application	13 th December 2017	13 th December 2017	Remote sensing and drone

E. PEKERJAAN <i>(Employment)</i>				
Majikan / Employer	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
Institute Agriculture Malaysia (AIM)	Honorary Secretary	Institute Agriculture Malaysia (AIM)	March 2022	current
Universiti Putra Malaysia	Head	Drone Unit, Department of Agricultural Technology	Jan 2023	Current
Universiti Putra Malaysia	Senior Lecturer	Department of Agricultural Technology	October 2016	Current
Universiti Putra Malaysia	Tutor	Department of Agricultural Technology	July 2010	Sept 2016
Universiti Putra Malaysia	Research Assistant	SMART Farming Technology Laboratory, Institute of Advance Technology	Oct 2009	June 2010
MIMOS Berhad Kuala Lumpur	Research Fellow	Knowledge GRID Malaysia	May 2009	Sept 2009

		Program		
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F. ANUGERAH DAN HADIAH (Honours and Awards)

Name of awards	Title	Award Authority	Award Type	Year
Academic Awards	Gold Medal Award	9 Southeast Asian Agricultural And Food Engineering Student Chapter	International	2023
	Gold Medal Award	7th Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention 2021, UPM	International	2021
	Best paper Award	7th Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention 2021, Upm	International	2021
	Silver Medal Award	Science and Technology Category at 3rd Digitalised International Invention, Innovation and Design Johor 2020	International	2020
	Best Presenter award	2019 International Conference on Computer and Drone Applications (IConDA)	International	2019
	Travel Grant Award	SEARCA (USD 5000)	International	2019
	Best paper award	National Convention of Agricultural & Food Engineering 2019	National	2019
	Silver Medal Awards	International STEM Olimpiad ISTEMO 2018	International	2018
	Best Presenter Award	The 5th Asian Conference Precision Agriculture, Jeju, Korea	International	2013
	Bronze Medal Award	Pameran Reka Cipta, Penyelidikan Dan Inovasi (PRPI), UPM	University	2010
	Silver Medal Awards	International Trade Fair (IEANA), Germany	International	2009
	Gold Medals Awards	Malaysia Technology Expo (MTE), PWTC	National	2009 & 2008
	Gold Medals Awards	Pameran Reka Cipta, Penyelidikan Dan Inovasi (PRPI)	University	2008 & 2007
	Diamond and Gold medal	British Invention Show (BIS), London	International	2008
Non-Academic Awards	National Science Fellowship	Ministry of Science, Technology and Innovation (MOSTI), Malaysia Government	Malaysia	2008-2009
	Dean lists for 5 semesters	Universiti Teknologi Malaysia (UTM)	University	2003-2007
	Best student awards for 2 semesters	Universiti Teknologi Malaysia (UTM)	University	2003-2007

<i>Awards of Merit</i>	Service Award UPM	Universiti Putra Malaysia	University	2016, 2017, 2020, 2021, 2022
	Anugerah Perkhidmatan Cemerlang (APC)	Universiti Putra Malaysia	University	2020

G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (*List of publications – author (s), title, journal, volume, page and year published*)

<i>Publications</i>	<p>Kumaran, V. J., Mohidem, N. A., Che'Ya, N. N., Ilahi, W. F. F., Shah, J. A., Sahwee, Z., ... & Omar, M. H. (2024). How can aerial imagery and vegetation indices algorithms monitor the geotagged crop?. <i>The Egyptian Journal of Remote Sensing and Space Sciences</i>, 27(4), 628-636.</p> <p>Wong, H. S., Tay, J. E. F., Kaur, S., Gan, W. Y., Che'Ya, N. N., Tan, C. H., & Tung, S. E. H. (2024). Knowledge and practices in preventing nutritional anaemia of the urban poor adolescents in Kuala Lumpur, Malaysia. <i>Nutrition and Health</i>, 30(2), 331-340.</p> <p>Ilahi, W. F. F., Rosdi, N. S. I., Zulkapli, M. F., Che'Ya, N. N., Su, A. S. M., Ping, T. N., ... & Hock, O. C. (2024). Growth performance of durian based on crop water requirement (ETc) using irrigation system. <i>Journal of Tropical Resources and Sustainable Science (JTRSS)</i>, 12(1), 51-56.</p> <p>Gambo, J., Roslan, S. N. A. B., Shafri, H. Z. M., Che'Ya, N. N., & Yusuf, Y. A. (2024). Unveiling and modelling: Land degradation, poverty nexus in Nigeria's semi-arid (jigawa state) using cloud-based geospatial data. <i>Journal of Arid Environments</i>, 222, 105151.</p> <p>Gambo, Jibrin, et al. "Unveiling and modelling the flood risk and multidimensional poverty determinants using geospatial multi-criteria approach: Evidence from Jigawa, Nigeria." <i>International Journal of Disaster Risk Reduction</i> 106 (2024): 104400.</p> <p>Gambo, J., binti Roslan, S. N. A., Shafri, H. Z. M., Che'Ya, N. N., Yusuf, Y. A., & Ang, Y. (2024). Unveiling and modelling the flood risk and multidimensional poverty determinants using geospatial multi-criteria approach: Evidence from Jigawa, Nigeria. <i>International Journal of Disaster Risk Reduction</i>, 106, 104400.</p> <p>Hazwan Abd Manaf, M. N., Juraimi, A. S., Motmainna, M., Che'Ya, N. N., Mat Su, A. S., Mohd Roslim, M. H., ... & Noor, N. M. (2024). Detection of Sedge Weeds Infestation in Wetland Rice Cultivation Using Hyperspectral Images and Artificial Intelligence: A Review. <i>Pertanika Journal of Science & Technology</i>, 33(3).</p> <p>Che'Ya, N. N., Abdullah, W. N. Z. Z., Roslan, S. N. A., Mohidem, N. A., Ariffin, N., & Kemat, N. (2024). Mobile Application and GeoSpatial Technology in Urban Farming. In <i>Advances in Geoinformatics Technologies: Facilities and Utilities Optimization and Management for Smart City Applications</i> (pp. 233-245). Cham: Springer Nature Switzerland.</p> <p>Mohidem, N. A., Jaafar, S., & Che'Ya, N. N. (2024). Integration of Unmanned Aerial Vehicle and Multispectral Sensor for Paddy Growth Monitoring Application: A Review. <i>Pertanika Journal of Tropical Agricultural Science</i>, 32(2).</p> <p>Gambo, J., binti Roslan, S. N. A., Shafrif, H. Z. M., Che'Ya, N. N., & Yusuf, Y. A. (2024). Unveiling groundwater potential zones as catalyst for multidimensional poverty reduction using analytical hierarchical process and geospatial decision support systems (S-DSS) approach in the semiarid region, Jigawa, Nigeria. <i>Groundwater for Sustainable Development</i>, 24, 101038.</p> <p>Tay, J. E. F., Tung, S. E. H., Kaur, S., Gan, W. Y., Che'Ya, N. N., & Tan, C. H. (2023). Seasonal variation in food security, lifestyle, nutritional status and its associated factors of the urban poor adolescents in Kuala Lumpur, Malaysia: research protocol of a prospective cohort study.</p> <p>Kumaran, V. J., Mohidem, N. A., Che'Ya, N. N., Ilahi, W. F. W., Shah, J. A., & Yusof, N. (2023). How can aerial imagery and vegetation indices algorithm can be used for monitoring crop through geotagged system? A review. <i>Advances in Agricultural and Food Research Journal</i>, 4(1).</p> <p>Ya'acob, M. E., Lu, L., Nobilly, F., Che'Ya, N. N., Aziz, A. A., Dupraz, C., ... & Mamun, M. A. A. (2022). Analysis of Weed Communities in Solar Farms Located in Tropical Areas—The Case of Malaysia. <i>Agronomy</i>, 12(12), 3073.</p> <p>Ang, Y., Shafri, H. Z. M., Lee, Y. P., Bakar, S. A., Abidin, H., Mohd Junaidi, M. U. U., Shaiful Jahari Hashim, Che'Ya & Samad, M. N. A. (2022). Oil palm yield prediction across blocks from multi-source data using machine learning and deep learning. <i>Earth Science Informatics</i>, 1-19.</p> <p>Wong, H. S., Tay, J. E. F., Kaur, S., Gan, W. Y., Che'Ya, N. N., Tan, C. H., & Tung, S. E. H. (2022). Knowledge and practices in preventing nutritional anaemia of the urban poor adolescents in Kuala Lumpur, Malaysia. <i>Nutrition and Health</i>, 02601060221122182.</p> <p>Ilahi, W. F. F., Hassan, N. H. A., Che'Ya, N. N., Ismail, M. R., Berahim, Z., Zakaria, N. I., & Omar, M. H. (2022). Alternate Wetting and Drying (AWD) on Rice Irrigation. <i>Pertanika Journal of Tropical Agricultural Science</i>, 45(3).</p> <p>Tarmidi, Z., Maimun, N. H. A., Hassan, N., Nasir, A. N. M., Sidek, A., & Che'Ya, N. N. (2022, July). <i>Tarmidi, Z., Maimun, N. H. A., Hassan, N., Nasir, A. N. M., Sidek, A., & Che'Ya, N. N. (2022, July)</i>.</p>
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	<p>Assessing the Suitability of Affordable Housing Based on Demand Criteria. In <i>IOP Conference Series: Earth and Environmental Science</i> (Vol. 1064, No. 1, p. 012045). IOP Publishing.</p> <p>Che'Ya, N. N., Mohidem, N. A., Tarmidi, Z., Sarifudin, M. S. A., & Shah, J. A. (2022, July). Mobile application devices for MATAG coconut variety detection based on spectral signature analysis: A review. In <i>IOP Conference Series: Earth and Environmental Science</i> (Vol. 1064, No. 1, p. 012039). IOP Publishing.</p> <p>Che'Ya, N.; Mohd Radzi, M.; Sulaiman, N.; Rosle, R.; Omar, M.; Berahim, Z.; Fazlil Ilahi, W.; Arif Shah, J.; Ismail, M. Weed Detection In Rice Field Using UAV And Multispectral Aerial Imagery, In Proceedings of The 1st International Online Conference On Agriculture - Advances In Agricultural Science And Technology, 10–25 February 2022, Mdp: Basel, Switzerland, Doi:10.3390/locag2022-12519</p> <p>Ang, Y., Shafri, H. Z. M., Lee, Y. P., Abidin, H., Bakar, S. A., Hashim, S., Che'Ya, N.N. & Abdullah, R. (2022). A novel ensemble machine learning and time series approach for oil palm yield prediction using Landsat time series imagery based on NDVI. <i>Geocarto International</i>, 1-32.</p> <p>Che'Ya, N.N.; Mohidem, N.A.; Roslin, N.A.; Saberioon, M.; Tarmidi, M.Z.; Arif Shah, J.; Fazlil Ilahi, W.F.; Man, N. Mobile Computing for Pest and Disease Management Using Spectral Signature Analysis: A Review. <i>Agronomy</i> 2022, 12, 967. https://doi.org/10.3390/agronomy12040967</p> <p>Sulaiman, N., Che'Ya, N. N., Mohd Roslim, M. H., Juraimi, A. S., Mohd Noor, N., & Fazlil Ilahi, W. F. (2022). The Application of Hyperspectral Remote Sensing Imagery (HRSI) for Weed Detection Analysis in Rice Fields: A Review. <i>Applied Sciences</i>, 12(5), 2570.</p> <p>Mohidem, N. A., Che'Ya, N. N., Juraimi, A. S., Fazlil Ilahi, W. F., Mohd Roslim, M. H., Sulaiman, N., ... & Mohd Noor, N. (2021). How Can Unmanned Aerial Vehicles Be Used for Detecting Weeds in Agricultural Fields?. <i>Agriculture</i>, 11(10), 1004.</p> <p>Roslim, M. H. M., Juraimi, A. S., Che'Ya, N. N., Sulaiman, N., Manaf, M. N. H. A., Ramli, Z., & Motmainna, M. (2021). Using Remote Sensing and an Unmanned Aerial System for Weed Management in Agricultural Crops: A Review. <i>Agronomy</i>, 11(9), 1809.</p> <p>Rosle, R., Che'Ya, N. N., Ang, Y., Rahmat, F., Wayayok, A., Berahim, Z., ... & Omar, M. H. (2021). Weed Detection in Rice Fields Using Remote Sensing Technique: A Review. <i>Applied Sciences</i>, 11(22), 10701.</p> <p>Rhushalshafira Rosle, Rowena Mat Halip, Nursyazyla Sulaiman, Nik Norasma Che'Ya, Wan Fazilah Fazlil Ilahi. (2021). Rice Crop Monitoring Using Normalized Difference Vegetation Index (NDVI). The 7th Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention 2021 (ARC2021), E-PROCEEDING e-isbn: 978-967-26312-0-0pp. 29 – 32.</p> <p>Nursyazyla Sulaiman, Syarifah Noor Irma Suryani Syd Ahmad, Zaid Ramli, Nik Norasma Che'Ya, Muhammad Huzaifah Mohd Roslim. (2021). A Review on Hyperspectral Remote Sensing for Weed Detection Analysis in Agricultural Crop, Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention (2021: Sarawak), E-PROCEEDING e-isbn: 978-967-26312-0-0 (pp. 1 - 7)</p> <p>Nur Adibah Mohidem, Muhamad Irfan Ab Rahman, Nik Norasma Che'Ya, Wan Fazilah Fazlil Ilahi, Mohd Amir Sabrin Zamri. (2021). Crop Growth Monitoring Using Geotagged Technique Derived from Aerial Imagery and Vegetation Indices Algorithm: A Review, E-PROCEEDING e-isbn: 978-967-26312-0-0 (pp. 8 - 16)</p> <p>Nur Adibah Mohidem, Fakhru Azran Nawi, Nik Norasma Che'Ya, Wan Fazilah Fazlil Ilahi. (2021). Development Of the Automated Fertigation System Using Mobile Apps, E-PROCEEDING e-isbn: 978-967-26312-0-0 (pp. 17 - 21)</p> <p>Che'Ya, N.N., Dunwoody, E., Gupta, M. Assessment of Weed Classification Using Hyperspectral Reflectance and Optimal Multispectral UAV Imagery. <i>Agronomy</i> 2021, 11, 1435. https://doi.org/10.3390/agronomy11071435 (Q1).</p> <p>Berahim, Z., Omar, M. H., Zakaria, N. I., Ismail, M. R., Rosle, R., Roslin, N. A., & Che'Ya, N. N. (2021). Silicon Improves Yield Performance by Enhancement in Physiological Responses, Crop Imagery, and Leaf and Culm Sheath Morphology in New Rice Line, PadiU Putra. <i>BioMed Research International</i>, 2021.</p> <p>Fazlil Ilahi, W. F., Abu Hassan, N. H., Ismail, M. R., Che'Ya, N. N., Berahim, Z., Omar, M. H., ... & Mohamed Zawawi, M. A. (2021). Potential Groundwater Exploration in Use of 2-D Electrical Resistivity Tomography (ERT) Techniques at the Department of Agriculture Kelantan Research and Developmental Platform Padang Raja Kelantan. <i>Pertanika Journal of Science & Technology</i>, 29(2).</p> <p>Roslin, N. A., Che'Ya, N. N., Rosle, R., & Ismail, M. R. (2021). Smartphone Application</p>
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<p>Development for Rice Field Management Through Aerial Imagery and Normalised Difference Vegetation Index (NDVI) Analysis. <i>Pertanika Journal of Science & Technology</i>, 29(2).</p> <p>Roslin, nor athirah; Che'Ya, Nik Norasma; Sulaiman, Nursyazyla; Nor Alahyadi, Lutfi Amir; Ismail, Mohd Razi. (2021). Mobile Application Development for Spectral Signature of Weed Species in Rice Farming. <i>Pertanika Journal of Science & Technology</i>, 29(4).</p> <p>Athirah, R. N., Che'Ya, N.N., & Ismail, M. R. (2020, July). Development of an android application for smart farming in crop management. In <i>IOP Conference Series: Earth and Environmental Science</i> (Vol. 540, No. 1, p. 012074). IOP Publishing.</p> <p>Che'Ya, N.N., Alahyadi, L. A. N., Fazilah, F. F. W., Roslan, S. N. A., & Tarmidi, Z. (2020, July). Identification Spectral Signature of Weed Species in Rice using Spectroradiometer Handheld Sensor. In <i>IOP Conference Series: Earth and Environmental Science</i> (Vol. 540, No. 1, p. 012091). IOP Publishing.</p> <p>Yuhao, A., Che'Ya, N. N., Roslin, N. A., & Ismail, M. R. (2020). Rice Chlorophyll Content Monitoring using Vegetation Indices from Multispectral Aerial Imagery. <i>Pertanika Journal of Science & Technology</i>, 28(3).</p> <p>Ilahi, W. F. F., Ya, N. N. Che'Ya, Razali, M. F. A., & Hassan, N. H. A. (2020). Impacts of fertigation via surface and subsurface drip irrigation on growth rate of rockmelon. <i>Advances in Agricultural and Food Research Journal</i>, 1(2).</p> <p>Halip, R. M., Che'Ya, N.N., Fadzli, W. F. I., Roslee, R., Roslin, N. A., Ismail, M. R., ... & Omar, M. H. (2020). Pemantauan Tanaman Padi Menggunakan Sistem Maklumat Geografi dan Imej Multispektral. <i>Advances in Agricultural and Food Research Journal</i>, 1(1).</p> <p>Man, N., Hassim, H., Sehu, N.I., Norasma, C.Y.N. (2020). "Drone services and application for paddy fertilizing and oil palm mapping for climate change", 40th Asian Conference on Remote Sensing: Progress of Remote Sensing Technology for Smart Future, ACRS 2019; Daejeon Convention Center (DCC) Daejeon; South Korea; 14 October 2019 - 18 October 2019 (Scopus).</p> <p>Syafiqah, N.F., Shariff, A.R.M., Norasma, C.Y.N. (2020). "GIS and UAV aerial imaging applications for durian plantation management", 40th Asian Conference on Remote Sensing: Progress of Remote Sensing Technology for Smart Future, ACRS 2019; Daejeon Convention Center (DCC) Daejeon; South Korea; 14 October 2019 - 18 October 2019 (Scopus).</p> <p>Ab Rahman, A. A., Jaafar, W. S. W. M., Maulud, K. N. A., Noor, N. M., Mohan, M., Cardil, A., Norasma, C.Y.N. and Naba, N. I. (2019, July). Applications of Drones in Emerging Economies: A case study of Malaysia. In 2019 6th International Conference on Space Science and Communication (IconSpace) (pp. 35-40). IEEE (Scopus).</p> <p>R N Athirah, C.Y.N. Norasma, M. R. Ismail, F. Azali, M. H. Omar, "PADI2U: Pembangunan Aplikasi Telefon Pintar untuk Pengurusan Padi di KADA Kelantan", National Convention of Agricultural & Food Engineering 2019, Putrajaya (2019)</p> <p>F. F.W. Fazilah, N. S. Saroni and C.Y. N. Norasma, "Production of spinach under variable water supply", National Convention of Agricultural & Food Engineering 2019, Putrajaya (2019)</p> <p>Norasma, C.Y.N., Faten, N. S. Z. A, Rhushalshafira, R, "Merekabentuk Konseptual Laman Sesawang Berasaskan GIS Bagi Kawalan Serangga Perosak Dan Serangan Penyakit Untuk Tanaman Padi", National Convention of Agricultural & Food Engineering 2019, Putrajaya (2019)</p> <p>Ang, Y., Nik Norasma, C. Y., Nor Athirah, R., Mohd Razi, I., Zulkarami, B., Fadzilah, M. A, "Pengukuran Klorofil Daun Padi Menggunakan Indeks Tumbuhan Spektrum Dari Imej Multispektral", National Convention of Agricultural & Food Engineering 2019, Putrajaya (2019)</p> <p>Norasma, C.Y.N., M.A. Fadzilah, N. A. Roslin, W. N. Zanariah, Z. Tarmidi, F. S. Candra, "Unmanned Aerial Vehicle Applications In Agriculture" 1st South Aceh International Conference On Engineering And Technology, South Aceh, Indonesia (2019) (Scopus).</p> <p>Norasma, C. Y. N., Fadzilah, M. A., Roslin, N. A., Zanariah, Z. W. N., Tarmidi, Z., & Candra, F. S. (2019, April). Unmanned Aerial Vehicle Applications In Agriculture. In <i>IOP Conference Series: Materials Science and Engineering</i> (Vol. 506, No. 1, p. 012063). IOP Publishing (Scopus).</p> <p>Norasma, C.Y.N., Lee, L. S., Ismail, M. R., Razali, S. M., Roslin, N. A., & Omar, M. H. (2019, December). Development of Rice Growth Map Using the Advanced Remote Sensing Techniques. In 2019 International Conference on Computer and Drone Applications (IConDA) (pp. 23-28). IEEE (Scopus).</p> <p>Rosle, R., Norasma, C.Y.N., Roslin, N. A., Halip, R. M., & Ismail, M. R. (2019, November).</p>	
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	<p>Monitoring Early Stage of Rice Crops Growth using Normalized Difference Vegetation Index generated from UAV. In IOP Conference Series: Earth and Environmental Science (Vol. 355, No. 1, p. 012066). IOP Publishing (Scopus).</p> <p>Hafidzi, N. A., Tarmidi, Z., Adi Maimun, N. H., Hassan, N., Mat Noor, N. A., Ariffin, A., & Norasma, C. Y. N. (2019). Assessing Sustainability Level From Social Aspects For Affordable Housing In Malaysia Using Spatial Indicators. International Archives of the Photogrammetry, Remote Sensing & Spatial Information Sciences (Scopus).</p> <p>Norasma, C. Y. N., Sari, M. A., Fadzilah, M. A., Ismail, M. R., Omar, M. H., Zulkarami, B., ... & Tarmidi, Z. (2018, June). Rice crop monitoring using multirotor UAV and RGB digital camera at early stage of growth. In IOP Conference Series: Earth and Environmental Science (Vol. 169, No. 1, p. 012095). IOP Publishing (Scopus).</p> <p>Sukor, N. A., Tarmidi, Z., Hassan, N., Maimun, N. H. A., Nor, N. A. M., Yusoff, N. S. M., & Norasma, C. N. (2018, June). Mapping of utilities risk for sewerage system asset management. In IOP Conference Series: Earth and Environmental Science (Vol. 169, No. 1, p. 012085). IOP Publishing (Scopus).</p> <p>Norasma, C.Y.N., Faten, N. S. Z. A and Rhushalshafira, R, "Conceptual Design for Web-Based GIS In Pest And Disease Control System For Paddy Crop" International Conference Kaizen In Management, Education, Social Science And Technology (ICKIMESST 2018), Perak, Malaysia (2018)</p> <p>A. Roslin, C.Y.N. Norasma, M.R. Ismail and F. Azali, "Padi2U: Mobile Application Development for Paddy Management in KADA Kelantan" 2nd International Geography Seminar (IGEOS) 2018, Universiti Pendidikan Sultan Idris, Malaysia (2018)</p> <p>A. Roslin, C.Y.N. Norasma, M.R. Ismail, F. Azali and S.S.A. Gani, "Padi2u: Mobile Application Development For Paddy Management In KADA Kelantan" International Agriculture Congress 2018 And 6th International Symposium For Food & Agriculture 2018, Universiti Putra Malaysia (2018)</p> <p>Ang Yuhao and Nik Norasma Che'Ya, "Application of UAV in agriculture for crop assessment: A review" IEEE Workshop on Geoscience and Remote Sensing 2018, Kuala Lumpur, Malaysia (2018)</p> <p>Lee Loong Shern, Nik Norasma Che'Ya, Athirah Roslin and Siti Nur Alia Roslan, "Rice Monitoring Using OBIA Technique Based On Aerial Imagery" IEEE Workshop on Geoscience and Remote Sensing 2018, Kuala Lumpur, Malaysia (2018)</p> <p>Nik Norasma Che Ya, Faten Nur' Syahira Zainal Abidin, Wan Fazilah Binti Fazlil Ilahi and Wan Nor Zanariah Zainol @ Abdullah, "Conceptual Design For Web GIS In Pest And Disease Control System For Paddy Crop" International Congress & General Meeting 2018, Riverside Majestic Kuching, Malaysia (2018).</p> <p>Nurshuhada Abd Sukor, Zakri Tarmidi, Noordyana Hassan, Nurul Hana Adi, Maimun, Noorsidi Aizuddin Mat Nor, Nurul Syakima Mohd Yusoff and Nik Norasma Che Ya, "Mapping of utilities risk for sewerage system asset management" 9th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing 2018, Berjaya Times Square Hotel, Malaysia (2018)</p> <p>Norasma, C.Y.N., M.Y.Abu Sari, M.A. Fadzilah, M.R. Ismail, M. H. Omar, Zulkarami, Y. M. M. Hassim and Z. Tarmidi. "Rice crop monitoring using multirotor UAV and RGB digital camera at early stage of growth" 9th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing 2018, Berjaya Times Square Hotel, Malaysia (2018)</p> <p>Norasma, C.Y.N., M. A. Fadzilah, S.S.A. Gani, M. S. Suhaizi and M.R. Ismail. "Tinjauan dan Aplikasi Dron dalam Pertanian" Malaysian Society Agricultural Engineers (MSAE) Conference 2018, Universiti Putra Malaysia (2018).</p> <p>Ahmad Suhaizi, M. S, Norida, M., Nik Norasma, C, Y., dan Wan Fazilah, F. I. "Teknologi Aplikasi Dron Untuk Pertanian" Persidangan Kebangsaan Permindaan Teknologi 2017 (CONFERTECH 2017), Berjaya Waterfront Hotel, Johor (2017).</p> <p>Norasma, C.Y.N., Shariff, A.R.M., Jahanshiri, E., Amin, M.S.M., Khairunniza-Bejo, S. and Mahmud, A.R. (2013). Web- Based Decision Support System for Paddy Planting Management. Pertanika Journal of Science and Technology, 21(1): 343-364 (Scopus).</p> <p>Norasma, C.Y.N., M. Gupta, D. George, A. Lisle, B. Basinet, and G. Campbell "Spectral Discrimination of Weeds Using Hyperspectral Radiometry" The 5th Asian Conference Precision Agriculture, Jeju, Korea (2013)</p> <p>Nik Norasma Che'Ya, Abdul Rashid Mohamed Shariff, Mohd Amin Mohd Soom, Siti Khairunniza Bejo, Ahmad Rodzi Mahmud, Ebrahim and Fauzul "An internet-based software tool for guidelines and mapping in paddy planting". MRSS2010, PWTC, 2010.</p>
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H. PROJEK PENYELIDIKAN TERDAHULU (<i>Past Research Project</i>)					
Project No.	Project Title	Role	Year	Source of fund	Status
6369105	PadiU Putra (Higher Institution Center of Excellent, HiCOE)	Member	2016	HiCOE (Minister of Higher Education)	Completed
5526500	PadiU Putra: Accelerating Rice Food Security and Socioeconomics for Rice Farming Communities	Member	2017	Translational research fund (Minister of Higher Education)	Completed

9611400	Mobile Apps Development for Paddy Management In Kada, Kelantan (ePaddyMobile)	Principle	2018	Grant Putra-IPM- Universiti Putra Malaysia	Completed
220040-267022	Optimal Tolerable Lodging Index on Rice Plant Due to Drone Downwash Effect During Spraying Operation	Member	2018	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	On-going
225683-267604	Development of a flood loss model and a flood risk assessment framework for paddy	Member	2018	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	On-going
	Program Climate Change Education Through Smart Foodies Program.	Member	2019	Kerajaan Selangor	Completed
5545000	Development of climate ready rice for sustaining food security in Malaysia'	Member	2019	LRGS 2019 (Minister of Higher Education)	On-going
9300466	Development of the Automated Fertigation Control System and Mobile Apps	Principle	2019	Matching Grant (UPM and UTM)	On-going
9693300	Development of Geo-tagging system and crop monitoring using aerial imagery and Vegetation Indices algorithm	Principle	2020	Geran Putra (Fast Tract)	On-going
	Deciphering Paddy Probiotics: A Precision Agricultural 'moonshot' for Rice cultivation	Member	2020	CREST	On-going
	Food insecurity, malnutrition and climate/weather variability among urban poor adolescents living in Kuala Lumpur, Malaysia	Member	2020	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	On-going
5545202	Precision Management of Coconut Nursery for Production of High Quality Seedlings	Member	2021	Ministry of Higher Education, Malaysia under the Long-term Research Grant Scheme (LRGS) f	On-going
	Weed detection using hyperspectral data in rice farming	Member	2023	University of Queensland, Australia	On-going
6380184-10201	Crop monitoring using UAV technology	Principle	2023	Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA)	On-going

I. AHLI PROFESIONAL (Professional Bodies)

- Institution of Geospatial and Remote Sensing Malaysia (IGRSM).
- International Society for Southeast Asian Agricultural Sciences (ISSAAS)
- Member of Malaysian Society of Agricultural Engineers (MSAE)
- Member of International Society of Precision Agriculture (ISPA)
- Honorary Secretary of Institute Agriculture Malaysia (AIM)
- Member of University of Queensland (UQ) Alumni

J. PEMBELAJARAN BERTERUSAN (Continuing Education)

Activities	Place	Date
ICPTech2023	Tenera Hotel, Malaysia	10-11 October 2023
AGRICULTURE IOT & BIG DATA E-WORKSHOP SERIES Agriculture Drone, Remote sensing & Application of GIS in Agriculture	UMK	18 th Apr 2022
<i>Universitas Diponegоро, Indonesia; Smart Farming and Precision Agriculture Crop and Weed Management Using Remote Sensing</i>	Indonesia	10 TH October 2022
International Lightning Safety Day Webinar (ILSD 2021)	Online, Mumbai, Kolkata, New Delhi	30 July 2021
Agricultural Engineering International Guest Lecture 2020	Webinar Online, host Indonesia	9 June 2020
2019 International Conference on Computer and Drone Applications (IConDA) (Oral Presenter)	Kuching, Sarawak	Dec, 2019
40th Asian Conference on Remote Sensing: Progress of Remote Sensing Technology for Smart Future, ACRS 2019 (Oral Presenter)	Daejeon Convention Center (DCC) Daejeon; South Korea	14 October 2019 – 18 October 2019
3rd International Symposium on Agricultural and Biosystem Engineering, ISABE 2019 (Oral Presenter)	South Sulawesi; Indonesia	6 August 2019 – 8 August 2019
ASD Seminar with Mr Dan (USA)	Faculty of Agriculture, UPM	April 5, 2018
Hands-on: Remote Sensing Data Processing for Forest Composition Identification	Seminar room, Faculty of Engineering, UPM	April 26, 2018
Show Case for Paddy Development using UAV and Sprayer Drone in KETARA, Terengganu (Oral Presenter)	KETARA, Terengganu	March 16, 2018
Blended Learning with PutraBLAST	Office of the Deputy Vice-Chancellor (RMC), UPM	March 1, 2018
Developing Excellent Research Proposal using Logical Framework Analysis (LFA)	Office of the Deputy Vice-Chancellor (RMC), UPM	February 14-15, 2018
Paddy Automation: Redefined	The Saujana Hotel Kuala Lumpur	February 6, 2018
Drone Application in Agriculture (Oral Presenter)	Malaysian Society of Agricultural Engineers Conference, UPM	February 7-8, 2018
PadiU Putra seminar with Minister of Higher Education Malaysia	Tanjong Demong, Besut, Terengganu	February 1, 2018
Agriculture and Food Security 2050	Auditorium Rashdan Baba, UPM	January 23, 2018
Time Management and Academic Writing with British Council	Office of the Deputy Vice-Chancellor (RMC), UPM	January 19-6, 2018
MSc in Applied Mechatronics Engineering at Harper Adams University UK	Seminar room, Faculty of Engineering, UPM	January 4, 2018
Confertech 2017 (Oral Presenter)	Hotel Berjaya Waterfront, Johor	November 14-16, 2017
Innovative Teaching and Learning with Technology: Screen Casting and Video Editing	Centre for Academic Development (CADe), UPM	October 11, 2017
Transformation Mind for Academic and Professional Workshop	Institute Bioscience, UPM	August 14-22, 2017
Fundamentals of Teaching and Learning Course	Centre for Academic Development (CADe), UPM	August 23-30, 2017
Paddy Monitoring using UAV in KETARA, Terengganu	KETARA, Terengganu	October 30, 2016
Effective Planning and Management of Oil Palm Plantation	Universiti Putra Malaysia (UPM)	October 25, 2016
Industry Collaboration Engagement (ICE) day - Big Data And Internet Of Things (IoT)	Universiti Putra Malaysia (UPM)	October 21, 2016

CEO@Faculty Program	Universiti Putra Malaysia (UPM)	October 13, 2016
Big Data and Internet	MARDI	October 12, 2016
Prog. Developing a Champion Mindset	Universiti Putra Malaysia (UPM)	August 2, 2016
Nobel Laureate's Outreach Camp 2016	Universiti Putra Malaysia (UPM)	August 9-12, 2016
National Coconut Workshop 2016 (Rapporteur)	Universiti Putra Malaysia (UPM)	August 9, 2016
Public Lecture: Milk Industry in Malaysia, Opportunities and Challenges	Universiti Putra Malaysia (UPM)	May 30, 2016
Talk on Hyperspectral Camera for UAV Platform	Universiti Putra Malaysia (UPM)	June 1, 2016
UAS4RS Conference	University of Queensland, Australia	February 17-18, 2016
Improving Human Life	Brisbane Global Cafe	November 12, 2014
UAV Workshop	Melaka	Sept 29-30, 2014
Field Day Workshop	University of Queensland, Australia	May 6, 2014 April, 4, 2015
3-Minute Thesis (Presenter)	University of Queensland, Australia	July 19, 2014
The 5 th Asian Conference Precision Agriculture (Oral Presenter)	Jeju, Korea	June 25-28, 2013
Unregistered conference in GIS and Remote Sensing	Brisbane	15 November 2012
Training on Oil Palm Lining and Precision Farming, MPOB (Committee)	Universiti Putra Malaysia (UPM)	October 28, 2010
Engineering & Technology for Global Stability and Security (Presenter)	WEC 2010, Kuching, Malaysia	August 2-5, 2010
National GIS (NGIS) 2010 (Participant)	Putrajaya International Convention Center (PICC), Malaysia	June 28-29, 2010
MRSS 2010, An internet-based software tool for guidelines and mapping in paddy planting (Presenter)	Putra World Trade Center (PWTC), Malaysia	April 27-28, 2010
MRSS 2010, An internet-based software tool for guidelines and mapping in paddy planting (Committee)	Putra World Trade Center (PWTC), Malaysia	April 27-28, 2010
ATCI 2009, Web Precision Farmer (v2.5): Comparison between Linux and Windows (Presenter)	Putra World Trade Center (PWTC), Malaysia	Nov 3-5, 2009
Participate in 1 st & 2 nd KnowledgeGRID MALAYSIA FORUM 2009 & 2010 (Presenter)	International Islamic Uni Malaysia (IIUM), Malaysia & Uni Malaysia Terengganu (UMT)	March 18-19, 2009 Oct 26-28, 2009
Definiens Developer 7.0 Essential Training	Universiti Putra Malaysia (UPM)	April 7-8, 2009
ArcGIS Desktop 1 & 11 Training	ESRI, Malaysia	August 17-01, 2009
GIS DAY 2009 & 2010, UPM, Development of Web GIS (Presenter & Committee)	Universiti Putra Malaysia (UPM)	Feb 11, 2009 & March 4, 2010
Map Asia 2008, 2008 (Presenter)	Kuala Lumpur Convention Center (KLCC), Malaysia	August 18-20, 2008
MapInfo and ArcGIS (Hands-on-training) (Trainer)	Geomatika College of Technology, Malaysia	July 7-10, 2008
Precision Agriculture for Rice Field Management Workshop	Tanjung Karang, Selangor, Malaysia/ National	Feb 2008

K. EDITOR EXPERIENCE

1. *International Journal of Remote Sensing*
2. *The IEEE Robotics and Automation Letters Submission and Review Management System*
3. *Advances in Agricultural and Food Research Journal*
4. *Agronomy MDPI*

L. Rujukan (references)

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