

SITI AEKBAL SALLEH (Sr, Dr)

Associate Professor, Head of Sustainable Technology
Institute of Biodiversity and Sustainable Development (IBSD)

Centre of Studies for Surveying Science and Geomatics
Faculty of Architecture, Planning and Surveying
Universiti Teknologi MARA,
40450 Shah Alam,
Selangor, Malaysia.

Institute of Biodiversity and Sustainable Development (IBSD)
Applied Geospatial and Remote Sensing Research Group (ARSGEO)
Integrated Mosquito Research Group (I-Merge)

+603-55211755/ +60162370220
aekbal@uitm.edu.my



Areas of Expertise

GIS, Remote Sensing, Urban Climate, Climate Change, Change Assessment Impacts

<https://www.scopus.com/authid/detail.uri?authorId=55232265100>

<https://orcid.org/0000-0002-2812-1897>

https://scholar.google.com/citations?user=xn2_PM9d9I8C&hl=en

<https://publons.com/researcher/1445617/siti-aekbal-salleh/>

https://www.researchgate.net/profile/Siti_Salleh4

Personal Information (Name, Staff/IC No, Centre/Department/Faculty/Institute)

Detailed information

Siti Aekbal Salleh

222228

811208015834

Centre of Studies for Surveying Science and Geomatics
Institute of Biodiversity and Sustainable Development
Applied Geospatial and Remote Sensing Research Group (ARSGEO)
Integrated Mosquito Research Group (I-Merge)

Academic Qualifications (PhD, Master, Degree, Diploma, Certificate/others,[year+University])

Detailed information

PhD in Built Environment, 2014, Universiti Teknologi MARA

MSc in Built Environment (By Research), 2007, Universiti Teknologi MARA

BSc (HONS) Geographical Information Science, 2004, University of Newcastle, UK
Diploma in Surveying Science and Geomatics (GIS), 2002, Universiti Teknologi MARA

Professional Members (Name of Body/member, Position, Duration)

Detailed information

1. Royal Institution Surveyor Malaysia (RISM)
2. International Society of Photogrammetry and Remote Sensing (ISPRS)
3. IEEE Geoscience and Remote Sensing Society Malaysia, (IEEE - GRSSM)

Teaching and Learning (Level of Degree, Semester, Course Name, Action)

Detailed information

1. Master, 2014 - current, GIS For Environmental Management (GIS724), Lecture, Tutorial and Labs
2. Degree, 2016 - current, Geographic Information Systems I (GIS613), Lecture and Labs
3. Degree, 2015-2016, GIS For Urban Planning (TPS453), Lecture and Labs
4. Degree, 2014-2016, Remote Sensing (SUG656), Lecture and Labs
5. Degree, 2014-2016, Environmental Studies (SUG657), Lecture and Tutorials
6. Degree, 2013-2014, GIS for Park Management (PMG557), Lecture and Labs

Student Supervision (Student Name and ID, Thesis/Dissertation Title, Semester, Level of Supervision, Action)

Completed PhD:

Gs Dr. Nurul Amirah Isa (2015507847), Urban Climatic Map Study of Malaysia, Senate: 1 September 2020

Ongoing Phd:

Nur Hidayah Zakaria (2017495002), Optimizing Windstorm Hazards indicators for developing Multiple Hazards Index using Fuzzy Logic Approach, Main Supervisor.

Salim Mohammed Humaid Al Waili (2017478164), Disaster Management using Geo-Spatial Data for The Sultanate of Oman, Co-Supervisor

Fazzami bin Othman (2017384993), Identifying Visibility Parameterization of Criminogenic Nature, Co-Supervisor

Darvina binti Mohd Jani (2019877184), The Effect of Urban Morphology towards Micro-climate in Kuala Lumpur, Co-Supervisor

Norishahani Ishak (2020550241), The Urban Heat Island Mitigation Prediction Model of Greater Kuala Lumpur, Co-Supervisor

Nur Asilah Binti Hj Ishak (2020631964), The Heterogeneity in Urban Composition with respect to Precipitation, Main Supervisor.

MSc GIS by Coursework

YEAR/ SEM	NAME	TOPIC
Julai 2015 - Julai 2015	Nur Syahirah Binti Hj Mansor (2013507035)	The Exploratory of The Spatial Distribution Analysis of Burglary Using Ordinary Least Square and Geographically Weighted Regression
Julai 2015 - Julai 2015	Sharifah Nurul Ain Binti Syed Mustorpha (2014209562)	GIS-Based Tree Complaints Management System

YEAR/ SEM	NAME	TOPIC
Julai 2015 - Julai 2015	Syaza Binti Rozali (2014299538)	Noise Distribution Map by Mobile Apps in UiTM Shah Alam
Jan 2015 - Jan 2016	Siti Nur Adila Binti Ishak (2013913353)	Mapping and Evaluating the Distribution of Invasive Aquatic Plant (Helicopus Pandanus) Obstructions in Navigable Waterways on Tasek Bera Using Spot Imagery
Jan 2016 - Jan 2017	Tuan Adnan Bin Tuan Yusuf (2015317065)	Use of GIS to Optimize the Accessibility of Maternal Health Services in Shah Alam Clinic
Jan 2016 - Jan 2017	Muhammad Abdul Hakim bin Muhamad (2015504099)	Development of "Masjidinfo" Mobile Application for Mosque Activities and Information
Jan 2016 - Jan 2017	Ahmad Syazni Aizat Bin Abd Rahman (2015594219)	Comparative Study for Landslide Susceptibility Mapping Methods: Multicriteria Decision Making (MCDM) and Artificial Neural Network (ANN)
Jan 2016 - Jan 2017	Siti Aliah Binti Mohd Hata (2015646236)	Location Geotagging and Spatial Analysis on Depression in Malaysia Using Big Data
Jan 2017 - Jan 2018	Nur Farhana Binti Abdul Aziz (2016206714)	Influence of Wind Speed and Wind Direction to The Dispersion of Transboundary-Haze
Jan 2017 - Jan 2018	Nurul Jannah Norzamani (20166647892)	3D Agent Based Evacuation Model of Human Behavior in Multi Storey Building
Jan 2017 - Jan 2018	Siti Rohana Fazlina Bt Kamarul Hisham (2015702595)	Dengue Cases Land Surface Temperature Dependency Using GIS in Shah Alam Selangor
July 2017 - July 2018	Nadia binti Kamaruddin (2015675396)	Evaluation of Thermal Anomalies and Ocean Production as Earthquake Precursors
July 2018 - July 2018	Sharifah Munirah binti Syed Ahmad (2016556143)	Optimizing Oil Palm Terrace Construction Planning using GIS
Jan 2018 - Jan 2019	Muzammil bin Mat Akhir (2017290262)	GIS based Running Track Story Maps
Jan 2018 - Jan 2019	Fakhrulisham bin Razali (2017299462)	Animal Disease Information System for Department of Veterinary Services
Jan 2018 - Jan 2019	Siti Zubaidah binti Abdul Latiff (2017292562)	Heat Vulnerability Index (HVI) For Urban Planning
Jan 2018 - July 2019	Khairul Imran bi Kamarudin (2017987291)	GIS for Search and Rescue: Comparison between Conventional method with GIS based Integration
July 2018 - July 2019	Nurul Aida binti Siman (2018890234)	The Estimation of Heat Vulnerability Index for Urban Area using Principal Component Analysis (PCA)

Publications (Author Name, Year, Title, Place of Publication, Publishers, Action/Role)

Publications for 2010

- [1] S. A. Salleh, N. Mansur, Z. Mohd Yusof and R. A. Nasir, "Crime Ecology: Surface Temperature vs. Crime Convicted (Burglary)", Acebs Asian Conference for Environmental Behaviourals, Proceeding of Asian Conference for Environmental Behaviourals (WOS)
- [2] Rabiatal Adawiyah Nasir, Ahmad Nazrin Aris Anuar, Fairus Md Darus, Norajlin Jaini, Siti Aekbal Salleh, "The Effects of Climatology Factors on Outdoor Recreation Perception and Activity in Shah Alam",

Conference on Environmental Behaviours (1nCEBs 2010), Proceeding of 1st National Conference on Environmental Behaviours (WOS)

[3] Zaharah Mohd Yusoff, Dasimah Omar, Kamaluddin Abd.Talib, Siti Aekbal Salleh, "Measuring Transportation Affordability of Lowcost Living in Kuala Lumpur City Hall Administrative Area", International University Social Responsibility Conference and Exhibition 2010. (SCOPUS)

Publications for 2012

[4] S. A. Salleh, Z. Abd.Latif, W.M.N Wan Mohd, A. Chan, "Albedo Pattern Recognition and Time-Series Analyses in Malaysia", Congress of International Photogrammetry and Remote Sensing Society (ISPRS2012), Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XXXIX-B7, 235-240, <https://doi.org/10.5194/isprsarchives-XXXIX-B7-235-2012>, 2012. (SCOPUS/WOS).

[5] S. A. Salleh, Z. Abd.Latif, W.M.N Wan Mohd, A. Chan, "Air Quality Parameters Dependency of Remotely-sensed Albedo", Colloquium of Signal Processing and its Application (CSPA 2012) (SCOPUS/WOS).

[6] Z. Abd. Latif, N. A. Mohd Zaki, S. A. Salleh, "GIS-based estimation of rooftop solar photovoltaic potential using LiDAR", Colloquium of Signal Processing and its Application (CSPA 2012) (SCOPUS/WOS).

[7] S. A. Salleh, Z. Abd.Latif, W.M.N Wan Mohd, A. Chan, "Air Quality Parameters Dependency and Optimal Diurnal Observation for Remotely-sensed Urban Heat Island", (ICUC8 Dublin 2012).

Publications for 2013

[8] Morris, K., Ooi, M.C.G., Chan, A., Abakr, Y.A., Aekbal Salleh, S., Duda, M. 2013, Influence Of Urbanization On Urban Heat Island Effects In Putrajaya Malaysia, in Proceedings of 12th International Conference on Atmospheric Sciences and Applications to Air Quality held in Seoul, 3rd – 5th June 2013, edited, Chung, Y.S. & Yoon, S.C., pp. 81. Seoul, Seoul National University and Korea Centre for Atmospheric Research.

[9] S. A. Salleh, Z. Abd. Latif, W. M. N. Wan Mohd and A. Chan, 2013. Factors Contributing to the Formation of an Urban Heat Island in Putrajaya, Malaysia, in Proceeding of Asia Pacific International Conference on Environmental Behaviours Study held in University of Westminster, London UK, 4th – 6th September 2013. (Procedia Social and Behavioral Studies, Elsevier). (WOS)

[10] S. A. Salleh, Z. Abd. Latif, W. M. N. Wan Mohd and A. Chan, 2013. The Influence of Land Surface Albedo to Urban Heat Island Formation in Putrajaya, in Proceeding of International Symposium for Geoinformation (ISG 2013) and LADM 2013, 24th-25th September 2013, (ISBN 978-967-0194-30-1).

[11] S. A. Salleh, W. M. N. Wan Mohd and E. S. S. Mohd Sadek, 2013. The Improved Conceptual Design of Web-based GIS Residential Property Marketing Information System. in Proceeding of International Symposium for Geoinformation (ISG 2013) and LADM 2013, 24th-25th September 2013.

Publications for 2014

[12] S. A. Salleh and J. R. Abd.Hamid, 2014. Investigation of Potential Integration of Spectroradiometer Data with GIS Technology: the Spectro-GIS Tools, In IOP Conference Series: Earth and Environmental Science (Vol. 18, No. 1, p. 012053). IOP Publishing. (SCOPUS/WOS).

[13] S. A. Salleh, W. M. N. Wan Mohd and E. S. S. Mohd Sadek, 2014 The Improved Conceptual Design of Web-based GIS Residential Property Marketing Information System. In Geoinformation for Informed Decisions (pp. 231-242). Springer International Publishing (Chapter in Book) (SCOPUS/WOS).

[14] S. A. Salleh, Z. Abd. Latif, W. M. N. Wan Mohd and A. Chan, 2014. Land Surface Albedo Determination: Remote Sensing and Statistical Validation, FIG Congress 2014, Kuala Lumpur, Malaysia, 16 – 21 June 2014.

[15] S. A. Salleh, W. M. N. Wan Mohd and E. S. S. Mohd Sadek, 2014. The Panoramic VR Integration of Web-based GIS Residential Property Marketing Information System (WGPMIS). FIG Congress 2014, Kuala Lumpur, Malaysia, 16 – 21 June 2014.

[16] S. A. Salleh, Z. Abd.Latif, W.M.N Wan Mohd, A. Chan, "Functional Relation of Land Surface Albedo with Climatological Variables: A Review on Remote Sensing Techniques and Recent Research Developments", (2014) Geocarto International, 29 (2), pp. 147-163. DOI: 10.1080/10106049.2012.748831 Geocarto International Journal, Taylor Francis. (SCOPUS/WOS – Q2)

[17] M.C.G Ooi, K.I Morris, M.Y Oozeer, A Chan, S.A Salleh, (2014). Investigation of urban heat island phenomenon and ozone formation in Putrajaya, Malaysia using multiple regression analysis and numerical weather prediction (WRF-CHEM). Urban Environmental Pollution 2014: Climate Change and Urban Environmental, UEP Conference, 12 - 15 June 2014, Sheraton Centre, Toronto, Canada. (Elsevier)

[18] K.I Morris, M.C.G Ooi, A Chan, Y.A Abakr, S.A Salleh, M.Y Ozeer, M. Duda, (2014). Numerical study on urban heat island of the city of Kuala Lumpur, Malaysia, using weather research and forecasting (WRF) model. Urban Environmental Pollution 2014: Climate Change and Urban Environmental, UEP Conference, 12 - 15 June 2014, Sheraton Centre, Toronto, Canada. (Elsevier)

Publications for 2015

[19] Morris, K. I., Salleh, S. A., Chan, A., Ooi, M. C. G., Abakr, Y. A., Oozeer, M. Y., & Duda, M. (2015). Computational study of urban heat island of Putrajaya, Malaysia. *Sustainable Cities and Society*. 2210-6707/© 2015 Elsevier Ltd. All rights reserved. <http://dx.doi.org/10.1016/j.scs.2015.04.010>. (SCOPUS/WOS - Q1)

[20] Salleh, S. A., Latif, Z. A., Chan, A., Morris, K. I., Ooi, M. C. G., & Mohd, W. M. N. W. (2015, August). Weather Research Forecast (WRF) modification of land surface albedo simulations for urban Near Surface Temperature. In 2015 International Conference on Space Science and Communication (IconSpace), (pp. 243-247). IEEE. (SCOPUS)

[21] Adnan, N. A., Noralam, N. F. F., Salleh, S. A., & Latif, Z. A. (2015, August). Utilizing Landsat imageries for Land Surface Temperature (LST) analysis of the Penang Island. In 2015 International Conference on Space Science and Communication (IconSpace), (pp. 193-198). IEEE.(SCOPUS)

[22] Morris, K. I., Chan, A., Salleh, S. A., Ooi, M. C. G., Abakr, Y. A., Oozeer, M. Y., & Duda, M. (2015). Integrating Weather Research and Forecasting Model, Noah Land Surface Model, Urban Canopy Model for Urban Heat Island Assessment. *British Journal of Environment and Climate Change*. ISSN: 2231-4784 (pp.231-253). 2015 SCIENCEDOMAIN international. <http://dx.doi.org/10.9734/BJECC/2015/14923>. (Peer-Reviewed)

[23] M.C-G. Ooi, A. Chan, S.A. Salleh, M.Y. Oozeer, K.I. Morris, (2015). Temperature response of boundary layer schemes on urbanization level of Klang Valley, Malaysia. 12th Annual Meeting: Asia Oceania Geoscience Society (AOGS) Together with 7th APHW, 2015, Singapore, pp. AS28-A022.

Publications for 2016

[24] K.I. Morris, A. Chan, M.C-G. Ooi, S. Aekbal Salleh, Y.A. Abakr, M.Y. Oozeer. Numerical study on the urbanisation of Putrajaya and its interaction with the local climate, over a decade. *Urban Climate*, 16, pp. 1 - 24, 2016. – (SCOPUS/WOS - Q1)

[25] Salleh, S. A., Latif, Z. A., Mohd, W. M. N. W., & Chan, A. (2016). Land Covers and Climate Impacts on Land Surface Temperature in Putrajaya, Malaysia. *Asian Journal of Environment-Behaviour Studies*, ISSN: 1394-0384, 5(19), 35-46. (WOS)

Publications 2017

- [26] M.C-G. Ooi, K.I. Morris, A. Chan, S. Aekbal Salleh, Y.A. Abakr, M.Y. Oozeer. Numerical Study on Effect of Urban Heating on Local Climate during Calm Inter-Monsoon Period in Greater Kuala Lumpur, Malaysia. *Urban Climate*. (SCOPUS/WOS – Q1)
- [27] Isa N. A, Wan Mohd, W. M. N, Salleh, S. A., and Md Nasruddin, N. A. Urban Climatic Analysis Mapping of Kuala Lumpur City. *Pertanika J. Soc. Sci. & Hum.* 25 (S): 291 - 300 (2017). (SCOPUS/WOS – Q2)
- [28] Isa N. A, Wan Mohd, W. M. N, and Salleh, S. A., The Effects Of Built-Up And Green Areas On The Land Surface Temperature Of The Kuala Lumpur City, *International Archives Photogrammetry, Remote Sensing and Spatial Information Science*, XLII-4-W5, 107-112, <https://doi.org/10.5194/isprs-archives-XLII-4-W5-107-2017>, 2017. (SCOPUS)

Publications 2018

- [29] Ooi, M. C. G., Chan, A., Kumarenthiran, S., Morris, K. I., Oozeer, M. Y., Islam, M. A., & Salleh, S. A. (2018, February). Comparison of WRF local and nonlocal boundary layer Physics in Greater Kuala Lumpur, Malaysia. In *IOP Conference Series: Earth and Environmental Science* (Vol. 117, No. 1, p. 012015). IOP Publishing. (SCOPUS)
- [30] Salleh, S. A., Rahman, A. A. A., Othman, A. N., & Mohd, W. N. W. (2018, February). Comparative study of landslides susceptibility mapping methods: Multi-Criteria Decision Making (MCDM) and Artificial Neural Network (ANN). In *IOP Conference Series: Earth and Environmental Science* (Vol. 117, No. 1, p. 012035). IOP Publishing. (SCOPUS)
- [31] Isa, N. A., Mohd, W. W., Salleh, S. A., & Ooi, M. C. G. (2018, February). The effects of green areas on air surface temperature of the Kuala Lumpur city using WRF-ARW modelling and Remote Sensing technique. In *IOP Conference Series: Earth and Environmental Science* (Vol. 117, No. 1, p. 012012). IOP Publishing. (SCOPUS)
- [32] Ooi, M. C. G., Chan, A., Kumarenthiran, S., Morris, K. I., Oozeer, M. Y., Islam, M. A., & Salleh, S. A. (2018, February). Comparison of WRF local and nonlocal boundary layer Physics in Greater Kuala Lumpur, Malaysia. In *IOP Conference Series: Earth and Environmental Science* (Vol. 117, No. 1, p. 012015). IOP Publishing. (SCOPUS)
- [33] Isa, N. A., Salleh, S. A., WANMOHD, W. M. N., & Chan, A. (2018). Kuala Lumpur City of Tomorrow: Integration of Geospatial Urban Climatic Information in City Planning. *Theoretical and Empirical Researches in Urban Management*, 13(4), 5-27. (SCOPUS-Q2)
- [34] Ibrahim, I., Asmawi, M., Samah, A. A., & Salleh, S. A. (2018). The Impacts of Socio-Economic Indicator on Urban Growth in Selangor, Malaysia. *Advanced Science Letters*, 24(7), 4844-4848. (WOS-Q4)

Publications 2019

- [35] Isa, N. A., Salleh, S. A., Mohd, W. W., Ooi, M. C. G., Chan, A., & Islam, M. A. (2019, November). The effects of lateral boundary conditions resolution for heat island studies in tropical urban of Kuala Lumpur. In *IOP Conference Series: Earth and Environmental Science* (Vol. 385, No. 1, p. 012020). IOP Publishing. (SCOPUS)
- [36] Islam, M. A., Chan, A., Khaw, S. K. K., Salleh, S. A., Zakaria, N. H., Isa, N. A., ... & Azari, M. (2019, November). Importance of lightning detection network development in Peninsular Malaysia. In *IOP Conference Series: Earth and Environmental Science* (Vol. 385, No. 1, p. 012036). IOP Publishing. (SCOPUS)

- [37] Zakaria, N. H., Salleh, S. A., Asmat, A., & Islam, M. A. (2019, November). Seasonal Windstorm Pattern and Damages in Peninsular Malaysia 2018. In IOP Conference Series: Earth and Environmental Science (Vol. 385, No. 1, p. 012029). IOP Publishing. (SCOPUS)
- [38] Othman, F., Yusoff, Z. M., & Salleh, S. A. (2019). Identifying Risky Space in Neighbourhood: An Analysis of The Criminogenic Spatio-temporal and Visibility on Layout Design. Environment-Behaviour Proceedings Journal, 4(12), 249-257. (WOS)

Publications 2020

- [39] Isa, N. A., Mohd, W. M. N. W., Salleh, S. A., Ooi, M. C. G., & Chan, A. (2020). Land Cover Impacts Towards Thermal Variation In The Kuala Lumpur City. Journal of Urban & Regional Analysis, 12(1). (SCOPUS/WOS – Q2)
- [40] Alhothily, I. A., Dom, N. C., Salleh, S. A., & Yatim, S. R. M. (2020). Biology characteristics of Aedes albopictus (Diptera: Culicidae) in Central Zones of Shah Alam, Selangor. Malaysian Journal of Fundamental and Applied Sciences, 15(6), 776-780. (SCOPUS/WOS – Q4)
- [41] Amirah Isa, N., Aekbal Salleh, S., Mohd, W. M. N. W., Chan, A., Gee Ooi, M. C., Hidayah Zakaria, N., & Amirul Islam, M. (2020, April). Building Volume Effects on Ambient Temperature In The Kuala Lumpur City. In IOP Conference Series: Earth and Environmental Science (Vol. 489, No. 1, p. 012011). (SCOPUS)
- [42] Zakaria, N. H., Salleh, S. A., Asmat, A., Chan, A., Isa, N. A., Hazali, N. A., & Islam, M. A. Analysis of Wind Speed, Humidity and Temperature: Variability and Trend in 2017 In IOP Conference Series: Earth and Environmental Science (Vol. 489, No. 1, p. 012011). (SCOPUS)
- [43] Othman, F., M. Yusoff, Z., & Salleh, S. A. (2020). Assessing the visualization of space and traffic volume using GIS-based processing and visibility parameters of space syntax. Geo-spatial Information Science, 23(3), 209-221. (SCOPUS/WOS – Q1)
- [44] Othman, F., Yusoff, Z. M., & Salleh, S. A. (2020). The Impact Of Physical Features And Environment On Crime In Urban Neighbourhood Areas. Planning Malaysia, 18(14).

Publications 2021

- [45] Isa N. A, Salleh S. A., Wan Mohd W. M. N, Ooi, M. C. G., Chan A and Islam, M. A., Jan, 2021. Impacts of Lateral Boundary Condition Resolution in Tropical Urban Climate Modelling for Kuala. (SCOPUS/WOS – Q2)

Research Grants and Contracts (Author Name, Year, Title, Grant, Amount, Action/Role, Status)

TITLE	GRANT RECEIVED (VALUE OF GRANT) (RM)	SPONSOR (S)	DATE
Development of an Intelligent Flood Warning System and Inundation Model for Selected Catchment in Peninsular Malaysia	RM 369,436.00	ScienceFund	2007-2009
UHI in Putrajaya	RM 300,000	ScienceFund	2010-2013
Green and Reverse Logistics in the Supply Chain	RM 274,400	MLC	2010-2012

TITLE	GRANT RECEIVED (VALUE OF GRANT) (RM)	SPONSOR (S)	DATE
Albedo Pattern Changes as Physical Parameter to Remote Sensing Anthropogenic Factors: Functional Relation to Global Climate Condition (PhD)	RM 65,600	FRGS	2010-2013
Forest Microclimate Dynamics and Patterns with Functional Relation to Global Climate Condition	RM 68,800	FRGS	2012-2014
Urban Climate Change and Spatial Complexity Evaluation for Adoption of Heat Vulnerability Index (HVI: Spatial Patterns of Exposure, Sensitivity and Adaptive Capacity) (PI)	RM 30,000	BESTARI PERDANA	2018-2020
Critical climate parameters identification for urban climate mapping in Malaysia (PI)	RM 50,000	RAGS	2015-2018
Nutrients Anomalies as an Earthquake precursor using coastal upwelling model	RM 50,000	BESTARI	2016-2018
Tropical Rainforest Carbon Sinks and Biomass Estimates with Integration of Multi - Source Remote Sensing Data Fusion	RM 86,200	FRGS	2015-2017
Applied Remote Sensing and Geospatial	RM 32,000	REI	2014-2016
Analyzing Appropriate Socio-Economic Indicators for Climate Analysis	RM 18,000	RIGS	2015-2017
Windstorm Hazards Index Integrated with Location-based Data Analytics for City Dwellers (PI)	RM 102,000	FRGS	2019-2022
Kajian IMPAK 20 Tahun UiTM	RM 150,000	UiTM	2019 - 2020
Kajian Impak Kempen Norma Baharu	RM 382,000	NADMA	2020

Consultation & Expertise (Appointment, Organization, Title, Level, Year, Action/Role)

TITLE	PROJECT AMOUNT (RM)	SPONSOR / ORGANIZATION	DATE
Projek Pembangunan Data Digital, Ukur Tanah dan Hartanah TNB	RM 4,000,000.00	Tenaga Nasional Berhad, Malaysia	2019-2022

TITLE	PROJECT AMOUNT (RM)	SPONSOR / ORGANIZATION	DATE
Kajian Penggabungan ICT keseluruhan Jabatan dalam MPS dan MPN menjadi Majlis Bandaraya Seremban serta pemantauan pelaksanaan projek	RM 498,640.00	Majlis Perbandaran Seremban (MPS)	END 22 JAN 2014
Kursus pengenalan kepada GIS (Geostatistics) dan Remote Sensing untuk IMR	RM 11,200.00	Institute of Medical Research, Kementerian Kesihatan Malaysia	4 AUG 2017
Kursus Geographical Information System (GIS) dan Remote Sensing di bawah program kursus iwam	RM 10,000.00	Angkatan Tentera Malaysia	4 NOV 2016
Kajian Pembangunan ICT di LLM	RM 513,294.00	LLM	JULY 2009 – MAR 2010
Perolehan Terjemahan Data Product Spesifikasi ISO 19131	RM 3,000.00	MacGDI	28 Feb 2010
Kursus Remote Sensing dan GIS	RM 22,939.00	Pelbagai Agensi	2 Dis 2010
Kursus Remote Sensing dan GIS19- 29 Nov 2007	RM 48,400.00	Pelbagai Agensi	Nov 2007 – June 2009
Kursus Remote Sensing dan GIS 2009(Modul 1 dan 2)	RM 26,200.00	Pelbagai Agensi	Nov 2009 – Dec 2009
Kursus Remote Sensing 2008	RM 74,717.50	Agensi Remote Sensing Malaysia	Oct 2008 – Dec 2008

Innovation, Commercialization & Entrepreneurial (Project Name, Type of Project, Title, Level, Year, Action/Role)

AWARD	TITLE/PRODUCT/INVENTION	LEVEL*	YEAR
Bronze Award	E-City of Shah Alam	National	2010
Gold Award	Web Based VRGIS Property Marketing Information System (VRGIS-PMIS)	Institution	2014
Gold Award	Spectro GIS	Institution	2014
Silver Award	My-Albedo: An Alternative Baseline Radiation Network	Institution	2014
Bronze Award	Lidar GeoDRM: Solution to Old Problem	Institution	2015
Silver Award	Open-Source GPS Tracking System (Geo Track)	Institution	2015

AWARD	TITLE/PRODUCT/INVENTION	LEVEL*	YEAR
Silver Award	WRF My Albedo: Modification for Urban Climate Predictor	Institution	2015
Gold Award	Lidar GeoDRM: Solution to Old Problem	Institution	2015
Silver Award	Forest Fire Map for All	Institution	2015
Bronze Award	Flood Evacuation System (GFES)	Institution	2015
Bronze Award	GeoUiTM Portal	Institution	2015
Bronze Award	Climate Change Flood Impact Estimator	Institution	2015
Bronze Award	Space-Based Urban Climatic Indicator	Institution	2015
Gold Award	MOOC: Getting to Know GIS	National	2018

Services & Administration (Position, Duration, Level of Position, Main Job/Action)

Detailed information

DATE	POSITION	COMMITTEE/ ORGANISATION
2020 - current	Head of Sustainable Technology	Institute for Biodiversity and Sustainable Technology, Office of Deputy Vice Chancellor (Research and Innovation), Universiti Teknologi MARA
2020 - current	Associate Professor	Faculty of Architecture Planning and Surveying, Universiti Teknologi MARA.
2018 – Apr 2020	Coordinator, International Cooperation, Training and Development (ICTD)	Office of International Affairs, Universiti Teknologi MARA
2013 -2019	Senior Lecturer	Faculty of Architecture Planning and Surveying, Universiti Teknologi MARA.
2006 - 2013	Lecturer	Faculty of Architecture Planning and Surveying, Universiti Teknologi MARA.
2017- 2021	Ranking Champion Faculty	Universiti Teknologi MARA

Work and Collaboration Experience (Position, Duration, Name of Organization, Main Job/Action)

Detailed information

Year	Activities and Organization	Main Job
2019	Global Volunteering Program (40 students comprises 15 from US, 10 from UK and 10 from China) – Pulau Banding and Orang Utan Island Collaboration: University of Southern Connecticut, Liverpool John Moores University, Shanghai Normal University Co-organized: Yayasan EMKAY with cooperation Pulau Banding Foundation and Orang Utan Island Foundation	Head (PIC)

Year	Activities and Organization	Main Job
2019	Head (PIC) – World Merit Youth SDG Summit Morocco (40 Students UiTM Joining the Summit) Organized and co-sponsored by World Merit	World Merit UiTM (Advisor)
2019	China Cultural Day Collaboration with China Embassy	Organizing Committee
2019	15th International Conference on Atmospheric Sciences and Applications to Air Quality University of Nottingham, Universiti Kebangsaan Malaysia, Universiti Teknologi MARA.	Organizing Committee
2019	ICRMBEE 2019 Co-hosted with Chulalongkorn University	ICRMBEE2019 Engineering Journal (Special Issue) Guest Editors
2018	The 10th Distinguished Tun Abdul Razak Lecture Synergy of Curiosity: From Acid to Art by John Sabraw Co-Organized by Ohio University, Universiti Teknologi MARA (UiTM) and Universiti Putra Malaysia (UPM)	Organizing Committee
2016	10th 7-SEAS International Workshop of Technologies and Sciences on Transboundary Haze 2016 Scientific committee: The University of Nottingham Malaysia Campus (UNMC), Universiti Teknologi MARA (UITM), National Space Agency (ANGKASA), Universiti Sains Malaysia (USM) Partners: National Aeronautics and Space Administration (NASA), USA, Office of Naval Research, USA, Naval Research Laboratory, USA, Universiti Sains Malaysia (USM), Malaysia Meteorological Department (MMD), Ministry of Science, Technology and Innovation (MOSTI)	Organizing Committee

Industrial Linkages and Collaboration

NAME OF INDUSTRY / ORGANIZATION	TYPE OF LINKAGES / COLLABORATIONS	DURATION
Tomtom Navigation	Research and Data provider	10 Sept 2020
Fakulti Sains Kesihatan	Research Collaboration	12 Mei 2015

NAME OF INDUSTRY / ORGANIZATION	TYPE OF LINKAGES / COLLABORATIONS	DURATION
ESRI	Staff training and developments	2016-2017
Univ of Nottingham, UK	Research and Publications	2010-2017
Univ of Nottingham, UK	Organizing international workshop and trainings	22-24 SEPT 2016
Institute for Medical Research	Organizing staff development training and workshop	4-Aug-17
MINDEF	Organizing staff development training and workshop	3-Nov-16
PDRM	Technical Advisory - Penyediaan Spesifikasi Bagi Projek Menaiktaraf Dan Perluasan Sistem Pakar Performance Intelligence System (PIS) PDRM Dibawah RMK-11 RP 2	6-Jan-17
LLM	Consultation project under the ICT development of LLM	July 2009 – Mar 2010
Agensi Remote Sensing Malaysia	Organizing trainings and workshops	Oct 2008 – Dec 2008

Awards & Recognitions (Name of Award, Organization, Title, Level, Year, Action/Role, Achievement)

Detailed information

Academic Award

AWARD	TITLE/PRODUCT/INVENTION	LEVEL	YEAR
<i>2nd Place Hadiah Penerbitan ANGKASA</i>	Albedo Pattern Recognition and Time Series Analyses in Malaysia	National	2011
<i>Best Paper Award (Geomatics Engineering and Geospatial Science)</i>	Comparison of WRF local and nonlocal boundary layer Physics in Greater Kuala Lumpur, Malaysia	International	2017

International, national, state, institutions, etc.

AWARD	TITLE/PRODUCT/INVENTION	LEVEL	YEAR
<i>Bronze Award</i>	E-City of Shah Alam	National	2010
<i>Gold Award</i>	Web Based VRGIS Property Marketing Information System (VRGIS-PMIS)	Institution	2014
<i>Gold Award</i>	Spectro GIS	Institution	2014
<i>Silver Award</i>	My-Albedo: An Alternative Baseline Radiation Network	Institution	2014
<i>Bronze Award</i>	Lidar GeoDRM: Solution to Old Problem	Institution	2015
<i>Silver Award</i>	Open-Source GPS Tracking System (Geo	Institution	2015

AWARD	TITLE/PRODUCT/INVENTION	LEVEL	YEAR
	Track)		
<i>Silver Award</i>	WRF My Albedo: Modification for Urban Climate Predictor	Institution	2015
<i>Gold Award</i>	Lidar GeoDRM: Solution to Old Problem	Institution	2015
<i>Silver Award</i>	Forest Fire Map for All	Institution	2015
<i>Bronze Award</i>	Flood Evacuation System (GFES)	Institution	2015
<i>Bronze Award</i>	GeoUiTM Portal	Institution	2015
<i>Bronze Award</i>	Climate Change Flood Impact Estimator	Institution	2015
<i>Bronze Award</i>	Space-Based Urban Climatic Indicator	Institution	2015
<i>Gold Award</i>	MOOC: Getting to Know GIS	National	2018

Recognition by Professional Bodies, Institutions, Peers and Students, etc.

AWARD	AWARDING BODY	LEVEL	YEAR
<i>Outstanding Contribution in Reviewing</i>	Elsevier and Editors of Geoscience Frontiers	International	2018
<i>Membership Diploma</i>	RISM	National	2015
<i>Hadiah Insentif Penerbitan LJT</i>	LJT	National	2012-2014
<i>Travel Scholarship</i>	Croucher Advanced Study Institute	International	2011

Contribution to Society (Name of Program, Organization, Title, Level, Year, Action/Role, Achievement)

Detailed information

Year	Activities	Product
2019	Head (PIC) – Global Volunteering Program (40 students comprises 15 from US, 10 from UK and 10 from China) – Pulau Banding and Orang Utan Island	Global Volunteering (potential continuous Summer Program)
2019	Head (PIC) – World Merit Youth SDG Summit Morocco (40 Students UiTM Joining the Summit)	World Merit UiTM (Advisor)

NAME OF ORGANIZATION(S), COMMUNITY, ETC.	TYPE OF CONTRIBUTION / SERVICE RENDERED	DATE
<i>Volunteer training program for World Urban forum</i>	Students, staff and community development	2014-2018
<i>Program Jalinan Kasih</i>	Contribution to the orphanage house for their development	2015

Other Activities (Name of Program, Organization, Title, Level, Year, Action/Role, Achievement)

Detailed information

Managing Editor of Built Environment Journal (2014 – 2020)

Guest Editor (Special Issues):

1. Engineering Journal (Special Issue for ICRM BEE 2019), Jan 2021

2. International Journal of Geospatial and Environmental Research (Special Issue for GGT2021), June 2021
3. Journal of Institutional Research of South East Asia (Special Issue for Kajian IMPAK), June 2021