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Areas of Expertise

Forestry, Remote Sensing, GIS, Geomatics, Environmental Studies

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Centre of Studies for Surveying Science and Geomatics

Institute for Biodiversity and Sustainable Development (IBSD)

Applied Remote Sensing and Geospatial Research Group (ARSGEO)

Academic Qualifications

PhD in Remote Sensing, 2010, Lancaster University, UNITED KINGDOM

Master in Remote Sensing & GIS, 2004, Universiti Putra Malaysia, MALAYSIA

Bachelor of Geomatics, 1995, The University of Melbourne, AUSTRALIA

Professional Members

1. Royal Institution of Surveyors Malaysia (RISM), Fellow, since 2002.
2. IEEE Geoscience & Remote Sensing (Malaysia) Chapter (IEEE GRSS Malaysia), Executive Committee Member, since 2012.
3. National Geospatial Data Committee (Malaysia), Working committee member.
4. IEEE Geoscience and Remote Sensing Society (GRSS), USA, Member, since 2010.
5. International Society of Photogrammetry & Remote Sensing USA (ISPRS), Member, since 2011.
6. Malaysian Remote Sensing Society, Member, 2003-2006.
7. Photogrammetry & Remote Sensing Society (UK), Member, 2007-2009.

Teaching and Learning

1. Degree, 2019-current, Environmental Remote Sensing (GLS695), Lecture
2. Degree, 2021-current, Sustainable Development (GLS616), Lecture
3. Degree, 2016-2018, Environmental Studies (SUG657), Lecture and Tutorials
4. Degree, 2010-2014, Remote Sensing (SUG656), Lecture and Labs
5. Degree, 2002 – 2006, Geodetic Astronomy, Lecture and Practical
6. Diploma, 2002 – 2006, Geodesy, Lecture and Tutorials
7. Diploma, 2002 – 2006, Engineering Survey, Lecture and Tutorials

Student Supervision

PhD Supervision (Research)

1. Rosnaini Che Hassan, Biomass Estimation for Rubber Plantation using Radar, 2020, Main supervisor, Completed.
2. Nurul Ain Mohd Zaki, Quantification of Tropical Rainforest Biomass and Carbon Stocks Using Airborne Lidar and Worldview-3 Image, 2018, Main supervisor, Completed.
3. Siti Aekbal Salleh, Land Surface Albedo Magnitude to Urban Climate Condition, 2014, Main supervisor, Completed.
4. Roslina Idris, 3D Building Reconstruction Based on Airborne LiDAR, Aerial Photogrammetry & Topographic Datasets, 2015, Main supervisor, Completed.
5. Nazri Che Dom, Spatio-Temporal Risk Modelling of Dengue Outbreak in an Urban Area, 2014, Co-supervisor, Completed.
6. Nafisah Khalid, Synergism in Remote Characterization and Analysis for Extracting Tree Canopy Structural Characteristics in a Heterogeneous Environment, 2017, Co-supervisor, Completed.
7. Wan Shafrina Wan Jaafar, Individual tree detection and modelling aboveground biomass and forest parameters using discrete return airborne LiDAR data, 2017, Co-supervisor, Completed.
8. Syaza Rozali, 2015163845, Deforestation and Forest Degradation Characterization using Multi-sensor Remote Sensing for Sustainable Forest Management, Main supervisor, Completed.
9. Haslina Hashim, 2016410386, Urban Forest Analysis using LiDAR and High-Resolution Multispectral Imagery for Sustainable Urban Forest Management, Main supervisor, Ongoing.

10. Mr. Salim Al Waili, (International student – Oman), Comprehensive Integration of Spatial Remote Sensing Imagery and Earth Observation UAV for Disaster Management in the Sultanate of Oman, Main supervisor, Ongoing (Expected completion 2021).
11. Noor Kamilah bt. Kezuwan, 2017831682, Spatial Cognition for Safety Baseline Indication for Heritage Area, Co-supervisor, Ongoing.
12. Nik Dahlia binti Nik Abd Kadir @ ab aziz, 2019669078, Deformation monitoring using high spatial multi sensor for 3D building, Main supervisor, Ongoing.
13. Nur Hidayah binti Ishak Hizam, 2019140843, Habitat Suitability Modeling of Malayan Tiger in Royal Belum State Park, Co-supervisor, Ongoing.
14. Shahir bin Shahrin, 2019489586, Built Heritage Assessment using 3D Point Cloud Data Analysis from LiDAR Survey, Co-supervisor, Ongoing.
15. Nurfadhilah Binti Ruslan, Spatial Walkability Index of Pedestrian Access to Rail Transit Station in Kuala Lumpur City, Co-supervisor, Ongoing.
16. Azinoor Azida Binti Abu Bakar, Quantifying Rainfall Interception Loss in Tropical Forest, Co-supervisor, Ongoing.

MSc. Thesis Supervision (Research)

1. Sitinor Atikah Nordin, Tree Crown Segmentation of *Gonystylus Bancanus* In Tropical Peat Swamp Forest Using Hyperspectral Image, 2017, Main supervisor, Completed.
2. Mohd Asraff b. Asmadi, UTM, Landslide Susceptibility Mapping and Analysis Using Multi Remotely Sensed Data in Tectonically Active Region, 2018, Co-supervisor, Completed.
3. Ibtisam Ab Majid, Biomass Estimation of Dominant Tropical Tree Species Using High Resolution Remotely-Sensed Data, 2017, Discontinued.
4. Hamizah Abd Majid, Assessing Forest Changes and Disturbance of Hutan Berkelah Pahang By Using Object-Based Image Analysis, Ongoing.
5. Mohd Asri Hakim Mohd Rosdi, 2016956887, GIS-Based Heuristic and Statistical Method in Sinkhole Susceptibility Hazard Zones by Using Analytical Hierarchical Process (AHP) Technique: A Case Study of Kuala Lumpur And Ampang Jaya, Ongoing.
6. Norfazira binti Mustafa, Quantification of Oil Palm Tree Leaf Pigment Using Remote Sensing and Wavelet Analysis, Ongoing.
7. Muhammad Afifi Bin Harun, Characterizing Forest Microclimate Correlate with Thermal Pattern By Remote Sensing Approaches, Discontinued.
8. Siti Nuranis bt. Hasnan, Infestation and Demographic Profile of *Aedes Albopictus* (Skuse) In Urbanized Dengue Risk Areas.
9. Ahmad Zulfadli Bin Ahmad Mazuvil, 2018820792, Accuracy Enhancement for Land Use /Land Cover Classification Using LiDAR, IFSAR and SENTINEL 2 in Klang River, Selangor, Ongoing.
10. Nik Ahmad Faris Bin Nik Effendi, 2020104675, Tropical Forest Species Recognition 20202 Using Hyperspectral Sensor and LIDAR, Ongoing.
11. Jasmine Cruz Binti Mohd Zaini, 2020677448, Integration of Mobile Laser Scanner (MLS) and SuperView-1 for Individual Tropical Tree Crown Identification, Ongoing.
12. Mohamad Amirul Hafiz bin Md Shukri, Tree Density Assessment for Tropical Forest Aboveground Biomass and Carbon Stock Using Quantitative Structure Model (QSM) And Laser Scanning Approach, Ongoing.

MSc. Dissertation Supervision (Coursework)

1. Fazly Amri Bin Mohd, Correlation Analysis of Land Surface Temperature Between Distribution of Land Cover Types and Vegetation Index, Main supervisor, Completed.
2. Norsaleha Binti Saleh, Spatial Analysis of Dengue Cases in Subang Jaya, Main supervisor, Completed.
3. Rosniza Binti Idris, Suitability Assessment of Nuclear Power Plant Site Search Using Geographic Information System and Analytical Hierarchy Process, Main supervisor, Completed
4. Siti Salha Binti Hj Nordin, Measures to Control Dengue in Construction Sites In Selangor, Main supervisor, Completed.
5. Khairun Najwa Binti Norazaman, The Implementation of Iso 9001: 2008 Among Malaysian Contractors, Main supervisor, Completed.
6. Ahmad bin Abdul Hadi, Safety and Health Site Management in Prevention Breeding Mosquito In Construction Site At Subang Jaya Area, Main supervisor, Completed.
7. Agerie Nega Wassihun, Effect of Forest Stand Density On The Estimation Of Above Ground Biomass/Carbon Stock Using Airborne And Terrestrial Lidar Derived Parameters In Berkelah Tropical Rain Forest, Malaysia, 2018, Co-supervisor, Completed.
8. Belinda Enuwamhangbe Odia, Unmanned Aerial Vehicle (UAV) Datasets for Retrieval of Forest Parameters and Estimation of Aboveground Biomass in Berkelah Tropical Rainforest, Malaysia, 2018, Co-supervisor, Completed.
9. Edward Justine, The Effect of Tree Density on The Assessment of Above Ground Biomass Using Terrestrial Laser Scanner and Quantitative Structure Modelling in Berkelah Tropical Forest, Malaysia, 2018, Co-supervisor, Completed.
10. Exavery Kigosi, Estimating Aboveground Biomass Based on Forest Volume from ALS And FCD Mapper in Berkelah Tropical Rainforest, Malaysia, 2018, Co-supervisor, Completed.
11. Solomon Begashaw, Accuracy of DTM Derived from UAV Imagery and Its Effect on Canopy Height Model Compared to Airborne Lidar In Part of Tropical Rain Forests of Berkelah, Malaysia, 2018, Co-supervisor, Completed.
12. Tiegsti Hadush Berhe, Towards A UAV Based Standalone System for Estimating and Mapping Aboveground Biomass/ Carbon Stock in Berkelah Tropical Rain Forest, Malaysia, 2018, Co-supervisor, Completed.
13. Muhammad Arief Izzuddin b. Muhammad Shakir, Modelling and mapping aboveground biomass and carbon stock estimation of tropical campus tree, 2020, Main supervisor, Completed.
14. Ismaizzuddin Ismadi B. Abdullah, 2020336689, Application of LiDAR for Solar Potential Analysis based on Urban 3D model, Main supervisor, Ongoing.

Degree Thesis Supervision

1. Nur Hidayah Bt Ishak Hizam, The Oil Palm Biomass Mapping Using Remote Sensing Method, Main supervisor, Completed.
2. Nur Hidayat Bt Moh Nasir, Oil Palm Fertility Mapping Using Remote Sensing Method, Main supervisor, Completed.
3. Nur Roshima Bt Mat Rasid, Underground Utility Mapping Using Ground Penetrating Radar, Main supervisor, Completed.
4. Siti Nur Afiqah Binti Aman, Extraction of Tree Crown and Canopy Height Using Airborne Lidar And Aerial Photo, Main supervisor, Completed

5. Zahidan Bin Mamet, Pemantauan Pergerakan Bangunan Tinggi Menggunakan Kaedah GPS, Main supervisor, Completed.
6. Nor Azam Bin Othman, Aplikasi GPS Menghasilkan Kontur Dalam Pemetaan Topografi, Main supervisor, Completed.
7. Mohd Jasmin Bin Mohd Sharif, Statik Dan Kinematik GPS Dalam Pengukuran Strip, Main supervisor, Completed.
8. Mohd Fuad Bin Abdullah @ Hashim, Perbandingan Kaedah Penentuan Titik Kawalan GPS Menggunakan Satu Dan Dua Alat Kawalan Gps Merujuk Kepada Peta Digital, Main supervisor, Completed.
9. Fudynathra Bin Abbas, Kajian Ketepatan Ketinggian GPS Dengan Menggunakan Geoid EGM96 Dan Geoid Malaysia, Main supervisor, Completed.
10. Failzulni Bin Zulkarnine, Kajian Ketepatan Cerapan GPS Terhadap Kesan Penggunaan Jarak Dan Masa, Main supervisor, Completed.
11. Ahmad Ridzuan Bin Ahmad Zawawi Penggunaan Alat Laser Total Station (Leica Tcr307) Dalam Kerja-Kerja Pemantauan Bangunan Tinggi, Main supervisor, Completed.
12. Mohd Fuad Bin Abdullah @ Hashim Perbandingan Ketepatan Nilai Ketinggian Orthometrik Menggunakan Kaedah GPS Dan Ukur Aras, Main supervisor, Completed.
13. Nurul Fatin Izati binti Aziz, Mapping of Carbon Stock at UiTM by Using LiDAR Application, Main supervisor, Completed.
14. Nur Hamizah Abd Majid, 2014297712, Tropical Forest Change and Mapping using Remote Sensing Technique: Case study of Bukit Cherakah Forest Reserve, Main supervisor, Completed.
15. Muhammad Amirul Hafiz Mohamed Jazman, 2014698618, GIS-based Landslides Hazard Mapping Prediction using Multi-criteria Decision Analysis, Main supervisor, Completed.
16. Nurul Zakirah binti Rosly, 2014264912, Identifying unhealthy and healthy plants near to Bauxite mining area in Pahang, Main supervisor, Completed.
17. Muhammad Emran Syamil bin Kamsan, 2014849404, Integrating Correlation between satellite remote sensing and in-situ measurement for urban heat island in Putrajaya, Main supervisor, Completed.
18. Nurul Elena binti Mohd Arif, 2014402878, Characterizing forest species composition in Hutan Simpan Bukit Cherakah using remote sensing, Main supervisor, Completed.
19. Floyd Froline, 2013815352, Relationship Between Earthquake and Movement of Land, Main supervisor, Completed.
20. Norlatifah binti Mohd Yusof, 2013780235, Analysis of soil erosion at Lojing Highland, Kelantan, Main supervisor, Completed.
21. Tuan Norsyafira binti Tuan Azam, 2012149861, Relationship between landuse and water quality at Lojing Highland, Kelantan, Main supervisor, Completed.
22. Amir Aizat bin Mohd Rosdi, 2014395545, Identification of flood evacuation centres for immediate escape at Kuala Krai, Kelantan, Main supervisor, Completed.
23. Mohamad Murshidi b. Zohari, 20141666049, Identification of oil palm and rubber tree using remote sensing at Kuala Lipis, Main supervisor, Completed.
24. Khairil Hazrin Ab Jabal, 2013424598, Assessment of Biomass and Carbon stock at Hutan Ayer Hitam using high resolution data, Main supervisor, Completed.
25. Shamsul Jalil, 2013629002, Tree Identification and tree crown delineation mapping using LiDAR
26. Mohd Hazmil b. Mohd Radzi, 2011370565, Land use pattern of agriculture and forested area using Remote Sensing: Case study of Cameron Highland, Main supervisor, Completed.
27. Nur Syahirah Mokhtar, 2013215826, Height assessment of forest canopy from airborne LiDAR data at Ayer Hitam Forest, Main supervisor, Completed.

28. Nurul Nadia Azhar, 2015102455, 3D building reconstruction of Menara SAAS, UiTM using Photogrammetry & LiDAR approach, Main supervisor, Ongoing.
29. Shahira Amira binti Ibrahim, 2015110133, 3D Feature Extraction of Buildings and Trees using LiDAR and World View 3 in UiTM Shah Alam, Main supervisor, Ongoing.

Publications

Book/Book Chapter

1. MN Suratman, Z Abd Latif, GD Oliveira, N Brunsell, Y Shimabukuro, CA Costa Dos Santos (Eds.), 2020, Forest Degradation Around the World. Intechopen, DOI: 10.5772/intechopen.77433, Book.
2. Suratman, M.N. & Abd Latif, Z. (Eds.), 2019, Deforestation Around the World. Intechopen (ISBN: 978-1-78923-834-1), Book.
3. Mohd Rosdi M.A.H., Abd Latif Z., Othman A.N., Mat Nasir N., 2019, Sinkhole Susceptibility Hazard Zones Using GIS Framework and Heuristic Method, In: El-Askary H., Lee S., Heggy E., Pradhan B. (eds) Advances in Remote Sensing and Geo Informatics Applications. CAJG 2018. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development). Springer, Cham, Book chapter.
4. Zulkiflee Abd Latif, 2011, Modelling Microclimates in Forests Using Remotely Sensed Data: Case study of broadleaved deciduous forest. VDM Verlag Dr. Mueller e.K. 292p, Book.

Scientific Journals

1. S Rozali, Z Abd Latif, NA Adnan, Y Hussin, A Blackburn & B Pradhan, 2020, Estimating feature extraction changes of Berkelah Forest, Malaysia from multisensor remote sensing data using an object-based technique, Geocarto International, DOI: 10.1080/10106049.2020.1852610, **Q1**.
2. MAH Mohd Rosdi, AN Othman, Z Abd Latif, Z Mohd Yusoff, 2019, GIS based probabilistic method in sinkhole susceptibility hazard zones. Indonesian Journal of Electrical Engineering and Computer Science 16(3), 1327-1333, **Q4**.
3. H Hashim, Z Abd Latif, NA Adnan, 2019, Land use land cover analysis with pixel-based classification approach, Indonesian Journal of Electrical Engineering and Computer Science, 16(3), 1327-1333, **Q4**.
4. Wassihun, A.N., Hussin, Y.A., Van Leeuwen, L.M., Abd Latif Z., 2019, Effect of forest stand density on the estimation of above ground biomass/carbon stock using airborne and terrestrial LIDAR derived tree parameters in tropical rain forest, Malaysia, SpringerOpen, Environ Syst Res 8, 27. <https://doi.org/10.1186/s40068-019-0155-z>.
5. Hashim H., Abd Latif, Z., Adnan N.A, 2019, Urban Vegetation Classification with NDVI Threshold Value Method with Very High Resolution (Vhr) Pleiades Imagery, International Archives of the Photogrammetry, Remote Sensing & Spatial Information Sciences, 10/1/2019, Vol. XLII-4/W16, p237-240. 4p.
6. Mohd Rosdi M.A.H., Abd Latif Z., Othman A.N., Mat Nasir N., 2019, Sinkhole Susceptibility Hazard Zones Using GIS Framework and Heuristic Method, In: El-Askary H., Lee S., Heggy E., Pradhan B. (eds), Springer, Advances in Remote Sensing and Geo Informatics Applications. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development).

7. Nordin, S.A., Latif, Z. A., & Omar, H., 2019, Individual tree crown segmentation in tropical peat swamp forest using airborne hyperspectral data, *Geocarto International*, <https://doi.org/10.1080/10106049.2018.1475511>, **Q2**.
8. Ghazali R., Abd Rasam A. R., Razali M. H., Razali R., Abd Latif, Z., 2019, Estimation of different subsurface materials depth using Ground Penetrating Radar. *International Journal of Advanced Trends in Computer Science and Engineering*, 8(1.3), 363-370.
9. Salleh, S. A., Latif, Z. A., Wan Mohd, W. M. N., & Chan, A., 2018, Land Covers and Climate Impacts on Land Surface Temperature in Putrajaya, Malaysia, *Asian Journal of Environment-Behavior Studies*, 3(10), 78-88.
10. Mohd Zaki, N. A., Latif, Z. A., & Suratman, M. N., 2018, Modelling above-ground live trees biomass and carbon stock estimation of tropical lowland Dipterocarp forest: integration of field-based and remotely sensed estimates, *International Journal of Remote Sensing*. Taylor and Francis Ltd., <https://doi.org/10.1080/01431161.2017.1421793>, **Q1**.
11. Mohd Zaki, N. A., & Abd Latif, Z., 2017, Carbon sinks and tropical forest biomass estimation: a review on role of remote sensing in aboveground-biomass modelling, *Geocarto International*, 32(7), <https://doi.org/10.1080/10106049.2016.1178814>, **Q2**.
12. Dom, N. C., Ahmad, A. H., Latif, Z. A., & Ismail, R., 2017, Integration of GIS-based model with epidemiological data as a tool for dengue surveillance, *Environment Asia*, 10(2), 135–146. <https://doi.org/10.14456/ea.2017.29>, **Q3**.
13. Rahman, M. Z. A., Bakar, M. A. A., Razak, K. A., Rasib, A. W., Kanniah, K. D., Kadir, W. H. W., Latif, Z. A., 2017), Non-destructive, laser-based individual tree aboveground biomass estimation in a tropical rainforest. *Forests*, 8(3), <https://doi.org/10.3390/f8030086>, **Q1**.
14. Adnan, N. A., Razi, N. M., Yusoff, Z. M., & Latif, Z. A, 2017, Spatial temporal estimation and analysis of carbon sequestration, *Advanced Science Letters*, 23(7), <https://doi.org/10.1166/asl.2017.9227>, **Q3**.
15. Hasnan, S. N. A., Dom, N. C., Latif, Z. A., & Madzlan, F., 2017, Surveillance of Aedes mosquitoes in different residential types in central zone of Shah Alam, Selangor, *Asian Pacific Journal of Tropical Disease*, 7(6), 332–340, <https://doi.org/10.12980/apjtd.7.2017D7-44>, **Q3**.
16. Mohd Zaki, N. A., Latif, Z. A., & Zainal, M. Z., 2016, Aboveground biomass and carbon stock estimation using double sampling approach and remotely-sensed data, *Jurnal Teknologi*, 78(5–4). <https://doi.org/10.11113/jt.v78.8551>, **Q3**.
17. Dom, N. C., Ahmad, A. H., Latif, Z. A., & Ismail, R., 2016, Application of geographical information system-based analytical hierarchy process as a tool for dengue risk assessment, *Asian Pacific Journal of Tropical Disease*, 6(12), 928–935, [https://doi.org/10.1016/S2222-1808\(16\)61158-1](https://doi.org/10.1016/S2222-1808(16)61158-1), **Q3**.
18. Mohd Zaki N.A., Abd Latif, Z., Suratman, N., 2016, Modelling The Carbon Stocks Estimation Of The Tropical Lowland Dipterocarp Forest Using LiDAR And Remotely Sensed Data, *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*.
19. Mohd Zaki N.A., Abd Latif, Z., Suratman, N., 2016, Aboveground biomass and carbon stocks modelling using non-linear regression model, *IOP Conf. Series: Earth and Environmental Science* 37, <http://doi.org/10.1088/1755-1315/37/1/012030>.
20. Abd Latif, Z., Aman, S.N.A. & Pradhan, B., 2015, Landslide Susceptibility Assessment Using High Resolution Lidar-derived Parameters and Probabilistic Frequency Ratio Model, *Malaysian Journal Of Remote Sensing and GIS*, 4(2), 72-84.
21. Hashim, R., & Latif, Z. A., 2015, Langkawi's sustainable regeneration strategy and natural heritage preservation, *Environment Asia*, 8(2), 1-8, **Q3**.

22. Mustafa, N., Ya'acob, N., Latif, Z. A., & Yusof, A. L., 2015, Quantification of oil palm tree leaf pigment (Chlorophyll A) concentration based on their age, *Jurnal Teknologi*, 75(11). <https://doi.org/10.11113/jt.v75.5341>, **Q3**.
23. Blackburn, G. A., Latif, Z. A., & Boyd, D. S., 2014, Forest disturbance and regeneration: A mosaic of discrete gap dynamics and open matrix regimes? *Journal of Vegetation Science*, 25(6), 1341–1354, <https://doi.org/10.1111/jvs.12201>, **Q1**.
24. Salleh, S. A., Latif, Z. A., Pradhan, B., Wan Mohd, W. M. N., & Chan, A., 2014, Functional relation of land surface albedo with climatological variables: a review on remote sensing techniques and recent research developments, *Geocarto International*, 29(2), 147–163, <https://doi.org/10.1080/10106049.2012.748831>, **Q2**.
25. Saeidi, V., Pradhan, B., Idrees, M. O., & Latif, Z. A., 2014, Fusion of airborne LiDAR with multispectral SPOT 5 image for enhancement of feature extraction using dempster-shafer theory, *IEEE Transactions on Geoscience and Remote Sensing*, 52(10), 6017–6025. <https://doi.org/10.1109/TGRS.2013.2294398>, **Q1**.
26. Khalid, N., Hamid, J. R. A. & Latif, Z. A., 2014, Accuracy assessment of tree crown detection using local maxima and multi-resolution segmentation, *IOP Conference Series: Earth and Environmental Science*. 1 ed. Institute of Physics Publishing, Vol. 18, 012023.
27. Idris, R., Latif, Z. A., Hamid, J. R. A., Jaafar, J. & Ahmad, M. Y., 2014, Integrating airborne LiDAR dataset and photographic images towards the construction of 3D building model. *IOP Conference Series: Earth and Environmental Science*. 1 ed. Institute of Physics Publishing, Vol. 18, 012049.
28. Aman, S. N. A., Latif, Z. A. & Pradhan, B., 2014, Spatial probabilistic approach on landslide susceptibility assessment from high resolution sensors derived parameters, *IOP Conference Series: Earth and Environmental Science*. 1 ed. Institute of Physics Publishing, Vol. 18, 012057.
29. Dom, N. C., Ahmad, A. H., Latif, Z. A., Ismail, R., & Pradhan, B., 2013, Coupling of remote sensing data and environmental-related parameters for dengue transmission risk assessment in Subang Jaya, Malaysia, *Geocarto International*, 28(3), 258–272, <https://doi.org/10.1080/10106049.2012.696726>, **Q2**.
30. Dom, N. C., Hassan, A. A., Latif, Z. A., & Ismail, R., 2013, Generating temporal model using climate variables for the prediction of dengue cases in Subang Jaya, Malaysia, *Asian Pacific Journal of Tropical Disease*, 3(5), 352–361. [https://doi.org/10.1016/S2222-1808\(13\)60084-5](https://doi.org/10.1016/S2222-1808(13)60084-5), **Q3**.
31. Dom, N. C., Ahmad, A. H., Latif, Z. A., & Ismail, R., 2013, Measurement of dengue epidemic spreading pattern using density analysis method: Retrospective spatial statistical study of dengue in Subang Jaya, Malaysia, 2006-2010, *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 107(11), 715–722, <https://doi.org/10.1093/trstmh/trt073>, **Q1**.
32. Pradhan, B., Latif, Z. A., & Aman, S. N. A., 2012, Application of Airborne LiDAR-Derived Parameters and Probabilistic-Based Frequency Ratio Model in Landslide Susceptibility Mapping, *Applied Mechanics and Materials*, 225, 442–447., <https://doi.org/10.4028/www.scientific.net/AMM.225.442>, **Q3**.
33. Dom, N. C., Latif, Z. A., Ahmad, A. H., Ismail, R., & Pradhan, B., 2012, Manifestation of GIS tools for spatial pattern distribution analysis of dengue fever epidemic in the city of Subang Jaya, Malaysia. *Environment Asia*, 5(2), 82–92, <https://doi.org/10.14456/ea.2012.22>, **Q3**.
34. Latif, Z. A., & Blackburn, G. A., 2010, The effects of gap size on some microclimate variables during late summer and autumn in a temperate broadleaved deciduous forest, *International Journal of Biometeorology*, 54(2), 119–129, <https://doi.org/10.1007/s00484-009-0260-1>, **Q1**.
35. Fisher, J. B., Nawaz, R., Fauzi, R., Nawaz, F., Eran, E. S., Abd. Latif, Z., & Blackett, M., 2008, Balancing water, religion and tourism on Redang Island, Malaysia. *Environmental Research Letters*, 3(2), <https://doi.org/10.1088/1748-9326/3/2/024005>, **Q1**.

36. Abd Latif, Z., Wan Mohd, W.M.N., Mohd Nor, A.M. and Md Sadek, E.S.S., 2005, GIS-Based Soil Erosion Modelling of Highland Areas, Case study of Genting Highland & Cameron Highlands, Scientific Research Journal, Vol 2(1), 30-40.

Conference Proceedings (Indexed & Non-Indexed)

1. N Naharudin, AH Salleh, M Abdul Halim, Z Abd Latif, 2020, Conceptual Framework for Walkability Assessment for Pedestrian Access to Rail Transit Services by using Spatial-MCDA, IOP Conference Series: Earth and Environmental Science, 540, IOP Publishing.
2. NA Mohd Zaki, MF Rajuli, Z Abd Latif, MN Suratman, H Omar, SN, MZ Zainal, N Talib, 2020, Analysis of Canopy Height Model (CHM) Extraction using Quick Terrain Modeller (QTM) for Tropical Forest Area, IOP Conference Series: Earth and Environmental Science, 540, IOP Publishing.
3. Abd Latif, Z. & Mohd Darus, N.A., 2019, Urban Growth Assessment and Its Impact on Deforestation at National Botanical Park, Malaysia Using Remote Sensing and GIS Techniques, Asian Conference on Remote Sensing 2019 (ACRS2019), Daejeon South Korea.
4. Solomon B., Yousif A. H., Kloosterman E.H., Abd Latif, Z., 2019, Accuracy Of UAV-Derived Digital Terrain Model (DTM) And Its Effect on Canopy Height Model (CHM) In Berkelah Tropical Rainforest, Malaysia, International Congress on Engineering and Life Science, Kastamonu, Turkey.
5. Robert Masolele, Yousif Hussin, Henk Kloosterman, Abd Latif, Z., 2019, ALOS-2 PALSAR-2 L-band cross-polarized data analysis for the assessment of carbon sequestration of tropical rainforest, Berkelah, Malaysia, XXV IUFRO World Congress 2019, Curitiba, Brazil.
6. N. Khalid, J. R. A. Hamid, Z. A. Latif, A. R. Rasam and N. M. Saraf, Mapping the 3D Distribution of Shorea Tree Species Based Upon Information Extracted from Worldview-2 and LiDAR Data, 2018, IEEE 8th International Conference on System Engineering and Technology (ICSET), Bandung, pp. 128-132.
7. Abd Latif, Z., 2018, LiDAR technology: Mapping of the future? 20th International Surveyors' Congress, Kuala Lumpur, Malaysia.
8. Abd Latif, Z. Othman, A.N., Mohd Rosdi, M.A.H., Mat Nasir, N., 2018, Assessing Quality of Derived Terrain and Tree Height Model using Full-waveform LiDAR Remote Sensing and UAV-based Aerial Imagery in Tropical Rainforest, Conference of the Arabian Journal of Geosciences (CAJG-2018), Hammamet, Tunisia.
9. Rozali, S., Abd Latif, Z., Adnan, N.A., 2018, Assessing Quality of Derived Terrain and Tree Height Model using Full-waveform LiDAR Remote Sensing and UAV-based Aerial Imagery in Tropical Rainforest, 2018 International Workshop on Geoscience & Remote Sensing (IWGRS2018), Shah Alam, Malaysia.
10. Haslina, H., Abd Latif, Z., Adnan, N.A., 2018, Classification of Urban Vegetation Using NDVI Threshold Method with Very High Resolution (VHR) Pleiades Imagery, 2018 International Workshop on Geoscience & Remote Sensing (IWGRS2018), Shah Alam, Malaysia.
11. Adnan, N.A., Abdilah, F. F., Mohd, F.A., Abd Latif, Z., 2018) Coastal Vulnerability Index (CVI) Mapping in the West Coast of Langkawi, 2018 International Workshop on Geoscience & Remote Sensing (IWGRS2018), Shah Alam, Malaysia.
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16. Latif, Z. A., Abd Majid, N.A., Mat Nasir, N., 2017, Spatio-Temporal Analysis Of Forest Loss Related To Urban Growth In Central Peninsular Malaysia. In 38th Asian Conference on Remote Sensing, ACRS 2017 New Delhi India.
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18. Mohd Zaki N.A., Abd Latif, Z., 2016, Modelling the Carbon Stocks Estimation Of The Tropical Lowland Dipterocarp Forest Using LiDAR And Remotely Sensed Data, ISPRS 2016, XXIII ISPRS Congress, Prague, Czech republic
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23. Mohd Zaki N.A., Abd Latif, Z., 2014, Allometric Equations for Estimating the Above-Ground Biomass and Carbon Stock in Tropical Lowland Dipterocarp: Case study of Royal Belum Forest Reserve, Perak, Malaysia.
24. Mohd Zaki N.A., Abd Latif, Z., 2015, Aboveground Biomass and Carbon Stock Estimation Using Double Sampling Approach and Remotely-sensed Data, Environmental and Civil Engineering Technology International Conference (ENVICET 2015)
25. Nordin, S, Abd Latif Z, Omar H., 2015, Crown Segmentation of Ramin Melawis Tree Using Hyperspectral Imagery, The 36th Asian Conference on Remote Sensing, Manila, Philippines.
26. Nordin S. Abd Latif Z, Omar H., 2015, Automatic Tree Crown Segmentation Algorithm of *Gonystylus Bancanus* Using Hyperspectral Image, IEEE Workshop and Geoscience and Remote Sensing, Kuala Lumpur, Malaysia.

27. Nordin S., Abd Latif Z, Omar H., 2016, Automatic Crown Segmentation of *Gonystylus Bancanus* Using Watershed Transformation, IEEE 7th Control and System Graduate Research Colloquium, Shah Alam, Malaysia.
28. Roslan, N.S., Abd Latif Z., Che Dom, N., 2016, Dengue Cases Distribution Based on Land Surface Temperature and Elevation, IEEE 7th Control and System Graduate Research Colloquium, Shah Alam, Malaysia.
29. Hasan, R. C., Kamaruddin, M. H. & Latif, Z. A., 2015, Height retrieval and vertical accuracy for quantifying biomass and carbon stock. International Conference on Space Science and Communication (Iconspace 2015), Langkawi, Malaysia, 75-74.
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31. Salleh, S. A., Latif, Z. A., Chan, A., Morris, K. I., Ooi, M. C. G. & Mohd, W. M. N. W., 2015, Weather Research Forecast (WRF) modification of land surface albedo simulations for urban Near Surface Temperature. International Conference on Space Science and Communication (Iconspace 2015), Langkawi, Malaysia 243-247.
32. Mustafa, N., Ya'Acob, N. & Latif, Z. A., 2014, A review on quantification of tree leaf pigment using wavelet analysis and remote sensing, 5th IEEE Control and System Graduate Research Colloquium, (ICSGRC 2014), Shah Alam, Malaysia, 158-163.
33. Zainal Abiden M.Z., Muhd Arshad S.H., Jaafar J., Abd Latif, Z., Zainal Abiden S.Z., 2013, Comparative Study on Stochastic and Deterministic Approaches in Urban Growth Model. 9th International Colloquium on Signal Processing & Its Applications (CSPA 2013), Kuala Lumpur, Malaysia, 8 – 10 March 2013.
34. Zamhury N., Hashim R., Merican F. M., Abd. Latif Z., 2013, The Praxis of Langkawi's Sustainable Regeneration Strategy Through Eco-Tourism. 4th Asia Pacific International Conference on Environment Behaviour Studies (AicEBs2013), London, U.K., 4-6 September 2013.
35. Salleh S. A., Abd.Latif Z., Wan Mohd, W.M.N., Chan, A., 2013, Urban Heat Island in Putrajaya, Malaysia: Urbanization vs Climate Change Effects. 4th Asia Pacific International Conference on Environment-Behavior Studies (AicEBs2013), London, U.K., 4-6 September 2013.
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37. Aman, S.N.A, Abd Latif Z., Pradhan, B. (2013). Spatial Probabilistic Approach on Landslide Susceptibility Assessment with Integration of High-Resolution Derived Parameters, The 8th International Symposium on Digital Earth (ISDE 2013), Kuching, Sarawak, 26-29 August 2013.
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40. Mohd Eris, S., Abd Latif, Z., Salleh, S.A., Pradhan, B., 2013, Solar Photovoltaic Potential Assessment Over Residential Area Rooftops Using LiDAR techniques. International Symposium & Exhibition on Geoinformation (ISG2013), Kuala Lumpur, 24-25 September 2013.

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42. Abd Latif. Z., Ibrahim, N.H., Zamri, Izzati, Pradhan, B., 2013, Tree species identification and classification using high resolution remotely-sensed data. International Symposium & Exhibition on Geoinformation (ISG 2013), Kuala Lumpur, 24-25 September 2013.
43. Abd Latif, Z., Zamri, I and Omar, H., 2012, Determination of tree species using Worldview-2 data. 2012 8th International Colloquium on Signal Processing & Its Applications (CSPA 2012), Melaka, Malaysia, 23 – 25 March 2012.
44. Abd Latif, Z., Mohd Zaki, N.A and Salleh, S.A, 2012, GIS-based Estimation of Rooftop Solar Photovoltaic Potential using LiDAR. 2012 8th International Colloquium on Signal Processing & Its Applications (CSPA 2012), Melaka, Malaysia, 23 – 25 March 2012.
45. Salleh, S.A., Abd Latif, Z., Wan Mohd, W.M.N. and Chan, A., 2012, Air Quality Parameters Dependency of Remotely-Sensed Albedo. 2012 8th International Colloquium on Signal Processing & Its Applications (CSPA 2012), Melaka, Malaysia, 23 – 25 March 2012.
46. Abd Latif, Z., Aman, S.N.A. and Pradhan, B., 2012, Landslide susceptibility mapping using LiDAR derived factors and frequency ratio model: Ulu Klang area, Malaysia, 2012 8th International Colloquium on Signal Processing & Its Applications (CSPA 2012), Melaka, Malaysia, 23 – 25 March 2012.
47. Ghazali, R., Adzmi, M.F., Rasam, A.R.A., Abd Latif, Z. and Samad, A.M., 2012, The evaluation of 3D traverses of three different distance lengths toward the quality of the network for deformation survey. 2012 8th International Colloquium on Signal Processing & Its Applications (CSPA 2012), Melaka, Malaysia, 23 – 25 March 2012.
48. Idris, R., Abd Latif, Z., Jaafar, J., 2012, Evaluation of LIDAR DSM for topographic map revision: Urban Environment Mapping Application. Proceedings of AKEPT 2nd Global Annual Young Researchers Conference and Exhibition 2012, Melaka, Malaysia, 29-31 October 2012.
49. Idris, R., Abd Latif, Z., Jaafar, J., Abd Hamid, JR, Ahmad, MY, 2012, Quantitative Assessment of LiDAR dataset for Topographic maps, Proceedings of International Conference on System Engineering & Technology 2012, Bandung, Indonesia, 11-12 September 2012.
50. Abd Latif, Z., Aman, S.N.A and Ghazali, R., 2011, Delineation of tree crown and canopy height using LiDAR and aerial photo. 2011 7th International Colloquium on Signal Processing & Its Applications (CSPA 2011), Penang, Malaysia, 4 – 6 March 2011.
51. Mohd Disa, N., Maarof, I., Abd Latif, Z., and Samad, A.M., 2011, LiDAR: A Review on Generating Digital True Orthophoto, 2011 7th International Colloquium on Signal Processing & Its Applications (CSPA 2011), Penang, Malaysia, 4 – 6 March 2011.
52. Ghazali, R., Abd Latif, Z., Abdul Rasam, A.R. and Samad, A.M., 2011, Integrating Cadastral GIS Database into GPS Navigation System for Locating Land Parcel Location in Cadastral Surveying, 2011 7th International Colloquium on Signal Processing & Its Applications (CSPA 2011), Penang, Malaysia, 4 – 6 March 2011.
53. Idris, R., Abd Latif, Z. and Samad, A.M., 2011, Multi-Criteria Selection of Nuclear Power Plants Using Analytical Hierachy Process, 2011 7th International Conference on Computer Science & Education (ICCSE 2011), Penang Malaysia, 25-27 November 2011.
54. Bohari, S.N., Mohd Disa, N., Abd Latif, Z. and Samad, A.M., 2011, The use of single orthorectified high resolution satellite imagery for topomap revision and updating, 2011 7th International Conference on Computer Science & Education (ICCSE 2011), Penang Malaysia, 25-27 November 2011

55. Ghazali, R., Enche Sukri, A.E., Abdul Latif, A.R., Abd Rasam, A.R., Abd Latif, Z. and Samad, A.M., 2011. Evaluating the relationship between scanning resolution of laser scanning with the accuracy of the 3D model constructed. 2011 7th International Conference on Computer Science & Education (ICCSE 2011), Penang Malaysia, 25-27 November 2011.
56. Abd Latif, Z. and Blackburn, G.A., 2011, Microclimate study using remotely sensed data. International Symposium and Exhibition on Geoinformation (ISG2011) 27– 29 September, 2011, Shah Alam, Selangor.
57. Khalid, N., Abdul Hamid, J.R., Mohd Noor, A.M. and Abd Latif, Z., 2011, Synergistic Utilization of Multispectral and LiDAR data for Tree Crown Delineation. International Symposium and Exhibition on Geoinformation (ISG2011) Shah Alam, Selangor, 27– 29 September 2011.
58. Idris, R., Abd Latif, Z. and Jaafar, J., 2011. Accuracy assessment of elevation models derived from LiDAR. International Symposium and Exhibition on Geoinformation (ISG2011), Shah Alam, Selangor, 27– 29 September 2011.
59. Salleh, S.A., Abd Latif, Z., Wan Mohd, W.M.N. and Chan, A., 2011, Albedo pattern changes as physical parameter to local climate condition: An exploratory study, International Symposium and Exhibition on Geoinformation (ISG2011), Shah Alam, Selangor, 27– 29 September, 2011.
60. Abu Bakar, N.N., Abdul Hamid, J.R., Mohd Noor, A.M. and Abd Latif, Z., 2011, Extracting Building Feature from High Resolution World-View 2 Imagery via Image Enhancement and Segmentation Techniques, International Symposium and Exhibition on Geoinformation (ISG2011) Shah Alam, Selangor, 27– 29 September 2011.
61. Aman, S.N.A., Abd Latif, Z. and Pradhan, B., 2011, Landslide Hazard Assessment Using LiDAR and Spatially Related Conditioning Factors, International Symposium and Exhibition on Geoinformation (ISG2011), Shah Alam, Selangor, 27– 29 September 2011.
62. Che Dom, N., Ahmad, A. H., Abd Latif, Z.& Ismail, R., 2011, Impact of Climate and Landuse variability based on dengue epidemic outbreak in Subang Jaya. IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER 2011), Penang, Malaysia, 5-6 December 2011.
63. Abd Latif, Z. and, Blackburn, G.A., 2010, Extracting gap and canopy properties using LiDAR and multispectral data, 2010 6th International Colloquium on Signal Processing & Its Applications (CSPA 2010), Malacca, Malaysia, 21st – 23rd May 2010.
64. Onojeghuo, A.O., Blackburn, G.A. and Abd Latif, Z., 2010, Characterizing reedbeds habitats using leafoff LiDAR data. 2010 6th International Colloquium on Signal Processing & Its Applications (CSPA 2010), Malacca, Malaysia, 21st – 23rd May 2010.
65. Yusoff, Z.M., Maassoumeh, B., Omar, D., Abd Latif, Z. and A.M., Abd Samad, 2010, Applicability of geographical information system in assessing the accessibility and mobility of urban lower-income family living. 2010 6th International Colloquium on Signal Processing & Its Applications (CSPA 2010), Malacca, Malaysia, 21st – 23rd May 2010.
66. Ghazali, R., Abd Hamid, M.R., Abd Latif, Z. and Abd Samad, A.M., 2010, Evaluating the Range of Differences Between GPS Rapi-Static Observed Orthometric Height with the Digital Precise Levelling. 2010 6th International Colloquium on Signal Processing & Its Applications (CSPA 2010), Malacca, Malaysia, 21st – 23rd May 2010.
67. Abd Latif, Z. and Blackburn, G.A., 2009, Extraction of gap and canopy properties derived from LiDAR and multispectral imagery for forest microclimate modelling. International Symposium on Remote Sensing of Environment ISRSE 33, Stresa, Italy, 8-11th May 2009.
68. Abd Latif, Z. and Blackburn, G.A., 2009, Driving a forest microclimate model using gap and canopy properties derived from LiDAR and multispectral data. RSPSoc2009, "New Dimensions in Earth Observation", University of Leicester, Leicester, UK, 8-11th September 2009.

69. Abd Latif, Z. and Blackburn, G.A., 2008, Forest microclimate modelling using gap and canopy properties derived from LiDAR and hyperspectral imagery, *Silvilaser 2008: 8th International conference on LiDAR applications in forest assessment and inventory*, Edinburgh, U.K., 18-19 September 2008.
70. Abd Latif, Z. and Blackburn, G.A., 2008, Extraction of gap and canopy properties using LiDAR and hyperspectral imagery for forest microclimate modelling, *2008 International Society of Photogrammetry and Remote Sensing Conference*, Beijing, China, 3-13 July 2008.
71. Abd Latif, Z., and Blackburn, G.A., 2008, Modelling the effects of gap size on microclimate and soil water balance in semi natural deciduous forest using remotely sensed data, *Annual Student Meeting, Remote Sensing and Photogrammetry Society*, Foxlease Activity Centre, Hampshire, U.K., 10-11 March 2008.
72. Abd Latif, Z., 2007, Modelling microclimates using remotely sensed data. *International Climate Change Conference 2007*, British Council, Aston Conference Centre, Birmingham, 28 -31 March 2007.
73. Benjamin, A., Wan Mohd, W.M.N., Md. Sadek, E.S.S., Abd Latif, Z. and Md Rani, M. N., 2006, Utilizing Radio-Controlled Helicopter for Large Scale Mapping. *International Symposium & Exhibition on Geoinformation 2006*, Kuala Lumpur, Malaysia, 19-21 September 2006.
74. Abd. Latif, Z., 2006, Summary of past, present and future research, *International Networking of Young Scientists on Imaging Techniques and GIS: Applications in Environmental and Natural Resources Management*, British Council, Universiti Malaya, Kuala Lumpur, Malaysia, September 2006.
75. Abd. Latif, Z., Wan Mohd, W. M. N., Md. Sadek, E.S.S., and Mohd Noor, A.M., 2006, Soil erosion modelling of Cameron Highlands using GIS techniques, *Proceedings of International Seminar on Civil and Infrastructure Engineering 2006 (ISCIE'06)*, Shah Alam, Malaysia, 13-14 June 2006.
76. Abd Latif, Z., Wan Mohd, W. M. N., Md. Sadek, E.S.S., & Mohd, Noor, A.M., 2005, GIS-based soil erosion modelling of highland areas: Case study of Genting Highlands and Cameron Highlands, *Proceedings of Conference on Scientific and Social Research 2005 (CSSR 2005)*.
77. Mohd Noor, A. M., & Wan Mohd, W. M. N., Abd Latif, Z., & Md.Sadek, E.S.S., 2004, Soil Erosion Modeling of Highland Areas: Case Study of Genting Highland and Cameron Highland. *Proceedings of International Symposium & Exhibition on Geoinformation 2004 (ISG 2004)*.

Research Grants and Contracts

1. Understanding Disturbance and Regeneration in Tropical Forests to Support Sustainable Forest Management, Natural Environment Research Council (NERC), U.K., RM 841,725, 2014-2017, Completed.
2. Impak Jaringan Universiti Teknikal Malaysia (MTUN) Dan Impak Geran Penyelidikan, Pembangunan Dan Pengkomersilan (R&D&C) Terhadap MTUN, Ministry of Education (MOE), Malaysia, 250,000, 2015-2016, Completed.
3. Microclimate Assessment of Edge Fragmentation Due to the Clearing Interface in Taman Negara and Its Surrounding, FRGS, RM40,000 2009-2013, Completed.
4. Albedo Pattern Changes as Physical Parameter to Remote Sensing Anthropogenic Factors: Functional Relation to Global Climate Condition, FRGS, RM65,600, 2010-2013, Completed.
5. Terrestrial Laser Scanning for The New Approach of Large Scale Three dimensional (3D) Topographic Mapping Ministry of Science, MOSTI, RM 173,000, 2012- 2013, Completed.
6. Forest Microclimate Dynamics and Patterns with Functional Relation to Global Climate Condition, FRGS, RM 68,800 2012-2014, Completed.

7. Interception Loss Canopy Cover C Formulation Theory, FRGS, RM 75,000, 2011- 2013, Completed.
8. Developing A Policy-Based for Sustainable Regeneration Among Communities in Langkawi, RAGS, RM35,000, 2012-2014, Completed.
9. Quantifying Tropical Rainforest Biomass by Fusing Lidar And Satellite Remote Sensing Data for Sustainable Forest Management, RAGS, RM 80,000, 2014-2016, Completed.
10. Multi Scale Lidar-Derived Landslide Maps: A New Tool for An Old Problem Ministry of Education (MoE), Malaysia, RM 104,200, 2014-2016, Completed.
11. Tropical Rainforest Carbon Sinks and Biomass Estimates with Integration of Multi-Source Remote Sensing Data Fusion, FRGS, RM 86,200, 2015-2017, Completed.
12. Integrating Mixed Methods in Developing Governance Model to Prevent Aedes Breeding in Construction Projects, FRGS, RM 62,200, 2016-2018, Completed.
13. Multicriteria Decision Making for Sinkhole Susceptibility Hazard Zones, FRGS, RM 77,300, 2016-2018, Completed.
14. Developing A Space Syntax Embedded Environmental Design Model (Edm) For A Safe Heritage Area (Shea), FRGS, RM 90,100, 2017-2019, Completed.
15. Assessing the Impact of Forest Degradation and Forest Change Caused by Selective Logging Using High Resolution Satellite Image and UAV Multispectral, DANA UP, Institut Perubahan Iklim, Pusat Pencerapan Bumi, UKM, RM 100,000, 2018-2020, Completed.
16. Windstorm Hazards Index Integrated with Location-Based Data Analytics for City Dwellers, FRGS, RM 102,000, 2019-2021,
17. Tree Density Assessment for Tropical Forest Aboveground Biomass and Carbon Stock Using Quantitative Structure Model (QSM) And Laser Scanning Approach, FRGS, RM 80,700, 2019-2021, Completed.
18. Multiple Visibility Network Model for Smart and Safe Society, FRGS, RM 56,200, 2019-2021, Completed.
19. Spatial Walkability Index of Pedestrian Access to Rail Transit Station in Kuala Lumpur City Centre By Using Analytical Network Process And GIS, FRGS, RM 51,200, 2019-2021, Completed.
20. Tropical Forest Species Recognition Using Hyperspectral Sensor And LIDAR, FRGS, RM 51,200, 2019-2021, Completed.
21. GIS-based Soil Erosion Modelling of Highland Areas- Case Study Genting Highlands And Cameron Highlands, Dana Penyelidikan UiTM, RM 9,943, 2003-2004, Completed.
22. Integrating Airborne Hyperspectral Remote Sensing and GIS Technology for Analyzing Urban Heat Island: Case Study of Penang Island, Dana Penyelidikan UiTM, RM 12,000, 2005-2006, Completed.
23. Digital Aerial Photogrammetry Using Radio Controlled Helicopter, Dana Penyelidikan UiTM, RM 12,000, 2005-2006, Completed.
24. Characterizing Forest Microclimates Using Numerical Modelling and Remote Sensing, Dana Penyelidikan UiTM, RM 7,000, 2010-2011, Completed.
25. Feasible Study on Establishment of Passive GPS Reference Station in UiTM, Shah Alam, Dana Penyelidikan UiTM, RM 10,000, 2010-2012, Completed.
26. Modelling Urban Growth and Spatial Structure for Urban Area in Malaysia, Dana Penyelidikan UiTM, RM 32,000, 2012-2013, Completed.
27. Spatially-derived Allometric Relationship Amongst Tree Biophysical Parameters, Dana Penyelidikan UiTM, RM 32,000, 2012-2013, Completed.
28. Applied Remote Sensing & Geospatial, Dana Penyelidikan UiTM, RM 32,000, 2014-2016, Completed.
29. Mapping of Urban Forest Structure and Function Using Airborne Lidar And High-Resolution Multispectral Data, BESTARI, RM 50,000, 2017-2019, Completed.

30. Modelling Aboveground Biomass and Carbon Stock in Logged-Over Tropical Forest in Berkelah, Malaysia Using Lidar and UAV-Based Stand-Alone System, Dana Penyelidikan UiTM, RM 30,000, 2018-2020, Completed.
31. Main Program: Transdisciplinary Research on Biodiversity and Environment at Pahang National Park, Dana Penyelidikan UiTM, RM 351,371, 2019-2020, On-going.
32. Modelling Individual Tree at Plot Level Using Terrestrial Laser Scanner TLS And Mobile Laser Scanner MLS, Dana Penyelidikan UiTM, RM 20,000, On-going.
33. Habitat Suitability Modelling to Aid Malayan Tiger Conservation in Royal Belum State Park, Dana Penyelidikan UiTM, RM 20,000, 2019-2021, On-going.
34. Anatomical Characterization Of Host Parasitic Relationship Between Tetrastigma Spp And Rafflesia Spp, Dana Penyelidikan UiTM, RM 20,000, 2019-2021, On-going.

Consultation & Expertise

1. Kajian semula Pelan Induk Rangkaian Ekologi Central Forest Spine (CFS), PlanMalaysia, Consultant, Sept 2019 - Aug 2021, RM 100,000.
2. External Examiner for Academic Program, Diploma in Geomatics, Faculty of Engineering & Technology, Kuala Lumpur Infrastructure University (KLIUC), External Examiner, 1 July 2014 - 30 June 2016.
3. Panel Lembaga Pengajian Semakan Kurikulum, Program Diploma Ukur Tanah, Pusat Pengajian Diploma Space, Universiti Teknologi Malaysia (UTM), External Examiner, 19 Februari 2016.
4. External Examiner for Academic Program, Diploma in Geomatics, Faculty of Engineering & Technology, Kuala Lumpur Infrastructure University (KLIUC), External Examiner, 19 April 2018 -18 April 2020.
5. Remote Sensing Course 2003 – Module 1 and 2, Malaysian Center of Remote Sensing (MACRES), Speaker / Facilitator, 2003, RM 10,000.
6. Short Course on Geographical Information System (GIS) 2003 – Data Collection, Malaysian Center for Geospatial Data Infrastructure (MaCGDI), Speaker / Facilitator, 2003, RM 10,000.
7. Geographical Information System (GIS) and Remote Sensing Course 2003- Module 1, Speaker / Facilitator, 2003, RM 10,000.
8. Remote Sensing Course 2004 – Module 1 and 2, Speaker / Facilitator, 2004, RM 10,000.
9. Short Course on Geographical Information System (GIS) 2004 – Data Collection, Malaysian Center for Geospatial Data Infrastructure (MaCGDI), Speaker / Facilitator, 2004, RM 10,000.
10. Geographical Information System (GIS) and Remote Sensing Course 2004- Module 1, National Soil Erosion Center (NASEC), Speaker / Facilitator, 2004, RM 10,000.
11. Revision Classes for Institute of Surveyors, Malaysia (ISM) Professional Examination 2004, Institute of Surveyors, Malaysia (ISM), Speaker / Facilitator, 2004, RM 3,000.
12. Short Course on Engineering Surveying 2004, Institute of Research, Development and Consultancy (IRDC), Speaker / Facilitator, 2004, RM 10,000.
13. Remote Sensing Course 2005 – Module 1, Malaysian Center of Remote Sensing (MACRES), Speaker / Facilitator, 2005, RM 10,000.
14. Short Course on Geographical Information System (GIS) 2005 – Data Collection, Malaysian Center for Geospatial Data Infrastructure (MaCGDI), Speaker / Facilitator, 2005, RM 10,000.

15. Revision Classes for Institute of Surveyors, Malaysia (ISM) Professional Examination 2005, Institute of Surveyors, Malaysia (ISM), Speaker / Facilitator, 2005, RM 3,000.
16. Series of GeoHits Technical Workshops: Series 1 – Construction Survey, Geotechnical, Highway and Engineering Survey Division, Faculty of Civil Engineering, UiTM, Speaker / Facilitator, 2005, RM 3,000.
17. Short Course on Geographical Information System (GIS) 2006 – Data Collection, Malaysian Center for Geospatial Data Infrastructure (MaCGDI), Speaker / Facilitator, 2006, RM 10,000.
18. Geographical Information System (GIS) Course 2006 – Data Collection, National Institute of Land and Survey (INSTUN), Speaker / Facilitator, 2006, RM 10,000.

Innovation, Commercialization & Entrepreneurial

1. Silver Medal, Invention, Innovation & Design Exposition (IIDEX 2018): (Title: Urban Forest Information System), Invention & Innovation Award, International, 2018.
2. Silver Medal, Ist International Malaysia-Indonesia-Thailand Symposium on Innovation and Creativity (iMIT SiC2017), Invention & Innovation Award, International, 2017.
3. Gold Medal Invention, Innovation & Design Exposition 2015 (Title: LiDAR GeoDRM: Solution to Old Problem), Invention & Innovation Award, University, 2015.
4. Bronze Award, Invention, Innovation & Design Exposition 2015 (Title: Carbon Stock Model for Tropical Forest (CSTF), Invention & Innovation Award, University, 2015.
5. Silver Award, Invention, Innovation & Design Exposition 2015 (Title: GeoVisualisor Cocoa Pest Control (GeoV-CPC) , Invention & Innovation Award, University, 2015.
6. Bronze Award, Invention, Innovation & Design Exposition 2015 (Title: Hyperspectral OBIA of Ramin Melawis), Invention & Innovation Award, University, 2015.
7. Silver Award, Invention, Innovation & Design Exposition 2016 (Title: LiDAR-Based Carbon Model (Li-CAM) for Sustainable Tropical Forest), Invention & Innovation Award, University, 2016.
8. 2nd Place (Staff category for Innovation, Invention, Innovation & Design Exposition 2015, Invention & Innovation Award, University, 2016.
9. Gold Award, 3rd International Innovation, Design and Articulation (i-IDEa 2016) (Title: LiDAR-based Carbon Model (Li-CAM) for sustainable Tropical Rainforest), Invention & Innovation Award, International, 2016.
10. Bronze Award, Invention, Innovation & Design Exposition 2016 (Title: Sugar Palm Suitability Map), Invention & Innovation Award, University, 2016.
11. Bronze Award, Invention, Innovation & Design Exposition 2016 (Title: Space-based Urban Climatics Indicators), Invention & Innovation Award, University, 2016.
12. Bronze Award, Invention, Innovation & Design Exposition 2016 (Title: Malaria Outbreak Map), Invention & Innovation Award, University, 2016.
13. Bronze Award, Invention, Innovation & Design Exposition 2016 (Title: Spatio-temporal Waterborne Typhoid Map), Invention & Innovation Award, University, 2016,

Services & Administration

1. November 1994 – February 1995, Jurukur Aman Kuantan, Pahang, **Trainee Surveyor**.

2. January 1996 – February 2002, Kuala Lumpur City Centre (KLCC) Project, Putrajaya Project (Federal Government Administration Centre), Universiti Teknologi Petronas (UTP) Project, Tronoh, Perak, **Surveyor 1.**
3. June 2002 – April 2004, Centre of Studies for Surveying Science Geomatics Faculty of Architecture, Planning & Surveying Universiti Teknologi MARA, Shah Alam, Malaysia, **Lecturer (Contract).**
4. April 2004 – December 2009, Centre of Studies for Surveying Science & Geomatics Faculty of Architecture, Planning & Surveying Universiti Teknologi MARA, Shah Alam, Malaysia, **Young Lecturer (Permanent).**
5. January 2010 – December 2013, Centre of Studies for Surveying Science & Geomatics Faculty of Architecture, Planning & Surveying Universiti Teknologi MARA, Shah Alam, Malaysia, **Senior Lecturer.**
6. January 2014 – December 2018, Centre of Studies for Surveying Science & Geomatics Faculty of Architecture, Planning & Surveying Universiti Teknologi MARA, Shah Alam, Malaysia, **Associate Professor.**
7. Jan 2012 – March 2014 Research Management Institute (RMI), Universiti Teknologi MARA, Shah Alam, Malaysia, **Fellow.**
8. April 2014 - 31 March 2019, Research Monitoring Unit Institute of Research Management & Innovation Universiti Teknologi MARA, Shah Alam, Malaysia, **Head.**
9. January 2019 - Present, Centre of Studies for Surveying Science & Geomatics Faculty of Architecture, Planning & Surveying Universiti Teknologi MARA, Shah Alam, Malaysia, **Professor.**

Work and Collaboration Experience

1. International Surveying Research Journal (ISRJ – RISM), 2020 - present, Editor-in-Chief.
2. Kastamonu University Journal of Engineering and Sciences, 2019 - Present, Editorial Board.
3. EnvironmentAsia Journal (WoS, Scopus), 2018 – Present, Editorial Board.
4. Asia-Pacific Network for Global Change Research (APN) Science Bulletin, 2018 - Present, Editorial Advisory Committee.
5. Journal of Applied Geospatial Information, 2017 – Present, Executive Editorial Advisor.
6. The Malaysia Surveyor (RISM), 2014 - Present, Journal Editor, Editorial Board.
7. International Surveying Research Journal (RISM), 2013 - Present, Journal Editor, Editorial Board.
8. Scientific Research Journal (RISM), 2013 - Present, Journal Editor, Editorial Board.
9. Arabian Journal of Geosciences, Springer, 2004 - Present, Journal Reviewer.
10. Environmental Monitoring and Assessment, Springer, 2004 - Present, Journal Reviewer.
11. Geocarto International, Taylor & Francis, 2004 - Present, Journal Reviewer.
12. Journal of African Earth Sciences, Elsevier, 2004 - Present, Journal Reviewer.
13. International Journal of Sustainable Development & World Ecology, Taylor & Francis, 2004 - Present, Journal Reviewer.
14. Singapore Journal of Tropical Geography, Wiley, 2004 - Present, Journal Reviewer.
15. Natural Hazards, 2004- Present, Journal Reviewer.
16. Forestry: An International Journal of Forest Research, 2004 - Present, Journal Reviewer.
17. IEEE Transactions on Geosciences and Remote Sensing, 2004 - Present, Journal Reviewer.
18. International Journal of Applied Earth Observation and Geoinformation, 2004 - Present, Journal Reviewer.

19. International Journal of Remote Sensing, Elsevier, UK, 2004 - Present, Journal Reviewer.
20. Journal of Applied Remote Sensing, 2004 - Present, Journal Reviewer.
21. Applied Geomatics, Springer, 2004 - Present, Journal Reviewer.
22. Journal of Geomatics, Engineering Geology, Elsevier, 2004 - Present, Journal Reviewer.
23. Geomatics, Natural Hazards & Risks, 2004 - Present, Journal Reviewer.
24. International Journal of Geoinformatics, 2004 - Present, Journal Reviewer.
25. Pertanika Journal of Science & Technology, 2004 - Present, Journal Reviewer.
26. Remote Sensing, 2004 - Present, Journal Reviewer.
27. Computers, Environment and Urban Systems, Springer, 2004 - Present, Journal Reviewer.
28. Land Degradation & Development, Wiley publication, 2004 - Present, Journal Reviewer.
29. International Journal of Forestry and Wood Science, 2004 - Present, Journal Reviewer.
30. Urban Forestry & Urban Greening, 2004 - Present, Journal Reviewer.
31. Geoscience Frontiers, 2004 - Present, Journal Reviewer.

Awards & Recognitions

1. Majlis Apresiasi Penyelidikan dan Inovasi, UiTM Selangor, Penyelia Utama PhD Graduate on Time (GOT), University, 2019.
2. FSPU Quality Award Faculty of Architecture, Planning & Surveying, UiTM, Best Postgraduate Supervisor Award, University, 2017.
3. FSPU Quality Award Faculty of Architecture, Planning & Surveying, UiTM, Best Researcher Award, University, 2016.
4. FSPU Quality Award Faculty of Architecture, Planning & Surveying, UiTM, Best Postgraduate Supervisor Award, University, 2016.
5. Best Paper Award: Top 5 of 10 AMER International Conference on Quality of Life, Association of Malaysia Environment-Behavior Researchers, Best Paper Award: Top 5 of 10 AMER International Conference on Quality of Life, International, 2015.
6. Best Paper Award (Aerospace Applications) at the 4th Conference on Recent Advances in Aerospace Technology (AEROTECH IV 2012), The 4th Conference on Recent Advances in Aerospace Technology, Conference on Recent Advances in Aerospace Technology, International, 2012.
7. Excellent Service Award (UiTM), Faculty of Architecture, Planning & Surveying, UiTM Excellent Service Award (UiTM), University, 2006.

Contribution to Society

1. Steering Committee, MoU UiTM-Perhilitan, 2019-2021.
2. Vice - Chair, International Conference on Geomatics & Geospatial Technology (GGT 2020).
3. Head, Research Monitoring Unit, Research Management Centre (RMC), Institute of Research Management & Innovation (IRMI), UiTM, April 2014 - March 2019.
4. Lead Advisor / Committee, "Perolehan Perkhidmatan Membekal, Menghantar Dan Menguji Integriti Bekalan Bagi Light Detection and Ranging (Lidar) Dan Ortofoto Bagi Universiti Teknologi Mara

Kampus Shah Alam, Puncak Alam, Selayang Dan Sungai Buloh Selangor Darul Ehsan”, UiTM Development Office, 2017-2018.

5. AKEPT Research & Publication Scholar, AKEPT, Ministry of Education, Malaysia, 2016-Present
6. External Panel for Promotion to Associate Professor, Universiti Kebangsaan Malaysia (UKM), 2018 – Present.
7. Panel Assessor for Fundamental Grant Scheme (FRGS, TRGS, PRGS), Ministry of Education, Malaysia, 2014-Present.
8. Fellow, Research Management Institute (RMI), UiTM, 2012-2014.
9. Secretary, Research Ethics Committee, UiTM, 2012-2014.
10. Head, Applied Remote Sensing & Geospatial Research Group, Faculty of Architecture, Planning & Surveying, UiTM, 2012 - Present.
11. Research Fellow, Centre for Biodiversity & Sustainable Development, UiTM, 2017-Present
12. Head of Research, Centre for Geospatial Technology, Faculty of Architecture, Planning & Surveying, UiTM, 2010-Present.
13. Resource Person (AP220), Bachelor of Surveying Science & Geomatics, Faculty of Architecture, Planning & Surveying, UiTM, 2002-Present.
14. Chair, International Workshop on Geoscience & Remote Sensing, 2018.
15. Vice chair, 5th International Conference on Science and Social Research (CSSR 2018).
16. Committee, 4th International Conference on Science and Social Research (CSSR2017).
17. Scientific Committee, Geomatics & Geospatial Technology, 2017.
18. Scientific Committee, Geomatics & Geospatial Technology, 2018.
19. Committee, 3rd International Conference on Science and Social Research (CSSR2016).
20. Committee, 2nd International Conference on Science and Social Research (CSSR2015), Grand Bluewave Hotel Shah Alam.
21. Technical Program Committee, 7th IGRSM International Remote Sensing & GIS Conference and Exhibition.
22. Committee, International Civil and Infrastructure Engineering Conference (InCIEC), 2014.
23. Technical Program Committee, IEEE Workshop on Geoscience and Remote Sensing 2016, UPM (IWGRS 2016).
24. Committee, National Geomatics/Geoinformatics Students Innovation Competition (NGGSIC), 2015.
25. Scientific Committee, Joint International Geoinformation Conference (JIGC), 2015.
26. Technical Program Committee, International Workshop on Geoscience & Remote Sensing 2014.
27. Steering Committee, National Conference on Royal Belum, 2014.
28. Committee, International Symposium & Exhibition on Geoinformation, 2014.
29. Committee, International Conference on Business and Management (ICBE 2014), 2014.
30. Committee, Persatuan Ibubapa & Guru, Sek Ren Bandar Anggerik, Seksyen 6, Shah Alam, Selangor.

Other Activities

PhD / Masters External Examiner

1. Abdul Hakim bin Salleh, Thesis titled: Model Sokongan Keputusan untuk Rekabentuk Laluan Optimum Geospatial dalam Pengurusan Pengangkutan Sisa Pepejal, Ph.D., Universiti Sains Malaysia (USM), 23 Jan 2020, External PhD examiner.

2. Siti Zubaidah Ahmad, Thesis titled: Fuzzy Logic-Ordered Weighted Average Model for Municipal Solid Waste Landfill Site Selection Using Comprehensive Spatial Environment, Physical and Socio-Economic Criteria, Ph.D., Universiti Sains Malaysia (USM), 16 Nov 2017, External PhD examiner.
3. Zamri bin Ismail, Thesis titled: Pembaikan Teknik Penurasan Data airborne LiDAR Untuk Penjanaan Ketepatan DEM bagi kawasan hutan tropika, Ph.D., Universiti Teknologi Malaysia (UTM), 31 Dec 2015, External PhD examiner.
4. Lydia Biri Nasimiyyu in University of Twente, Netherlands, Thesis titled: Radar Remote Sensing for Detecting and Mapping Of Shellfish Distribution On Intertidal Flats In The Dutch Wadden Sea Masters of Natural Resource Management, Natural Resource Management Programme, University of Twente, Netherlands, 19 Feb 2018, External MSc examiner.
5. Toh Hai Jian (MJ133040), Thesis titled: Field Observation on Thermal Environment of An Urban Street with Roadside Trees in A Tropical Climate, Masters UTM, Malaysia Japan International Institute of Technology (MJIIT), 27 Apr 2018, External MSc examiner.
6. Abdul Karim Mustafa, Thesis titled: Enhancement of Social Media for Disaster Response in Malaysia: A Fuzzy Delphi study, Masters UTM, Malaysia Japan International Institute of Technology (MJIIT), 23 August 2017, External MSc examiner.
7. Nor Suhada bt Azid, Thesis titled: Analysis of Urban Morphology Towards Urban Climate in Kg Baru, Kuala Lumpur using GIS, Masters UTM, Malaysia Japan International Institute of Technology (MJIIT), 13 March 2018, External MSc examiner.
8. Hairie Ilkham Bin Sibaruddin, Thesis titled: UAV-Based Approach to Extract Topographic and As-Built Infrastructure Information by Utilizing the OBIA Technique, Masters, Universiti Putra Malaysia (UPM), 10 May 2018, External MSc examiner.
9. Rabiah Ahmad, Thesis titled: Prioritizing Feature Attributes of Urban Green Spaces using AHP-Multiple Criteria Decision Model, Masters of Civil Engineering, Universiti Sains Malaysia (USM), 30 May 2018, External MSc examiner.
10. Nurliyana Izzati bt Ishak, Thesis titled: Landslides activity mapping and analysis based on vegetation anomalies derived from remotely-sensed data, Masters, Fakulti Geoinformasi dan Harta Tanah, Universiti Teknologi Malaysia (UTM), 18 December 2017, External MSc examiner.
11. Nur Liyana bt Mansor, Thesis titled: Tourism Ingrated Zoning Near Salt Lick Areas for Wildlife Ecology Management at Royal Belum State Park, Masters, Fakulti Geoinformasi dan Harta Tanah, Universiti Teknologi Malaysia (UTM), 22 Nov 2017, External MSc examiner.
12. Huda Jamal Jumaah, Thesis titled: UAV-Based PM2.5 Monitoring for Small Scale Urban Areas, Masters, Universiti Putra Malaysia (UPM), 30 May 2018, External MSc examiner.
13. Md Afif Abu Bakar, Thesis titled: Non-destructive laser-based individual tree aboveground biomass estimation in tropical forest, Masters Fakulti Geoinformasi dan Harta Tanah, Universiti Teknologi Malaysia (UTM) ,30 January 2016, External MSc examiner.
14. Noratqah Mohamad Deros, 2010966865, Thesis titled: Seasonal Wind Pattern Forecast Model Development from Imaging and Non-Imaging Data, Ph.D., AS990, Faculty of Applied Sciences, UiTM, 24 October 2017, Internal PhD examiner.
15. Ku Nor Afiza Asnida Binti Ku Mansor, 2014106263, Thesis titled: Seasonal Ocean Surface Circulation in Straits of Malacca Using Satellite Altimeter and Low-Cost GPS-Tracked Drifting Buoy, Masters AP780, Faculty of Architecture, Planning and Surveying, UiTM, 14 August 2017, Internal Masters examiner.
16. Nur Aishah Sulaiman, 2011946387, Thesis titled: Flood risk assessment for bandar Segamat using remote sensing & GIS approach, Masters AP780, Faculty of Architecture, Planning and Surveying, UiTM, 19 November 2014, Internal Masters examiner.