

Maisarah Abdul Halim (Sr)

Lecturer

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Areas of Expertise

Geographic Information Science, Remote Sensing, Geospatial Big Data, Space-time Analytics

<https://expert.uitm.edu.my/profile.php?id=HEj2hXhFQqswlwsV0v7V9aAZ+iR/NOcqBix45Mraw4M=>

<https://www.scopus.com/authid/detail.uri?authorId=57211267629>

http://scholar.google.com/citations?user=drUS_cgAAAAJ&hl=en

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Personal Information

Maisarah Abdul Halim,

Centre of Studies for Surveying Science and Geomatics

Faculty of Architecture, Planning and Surveying

Academic Qualifications

Master of Science in Geographic Information Science, 2015, University College London

Bachelor of Surveying Science and Geomatics (Honors), 2013, Universiti Teknologi MARA

Professional Members

1. Royal Institution of Surveyors Malaysia (RISM), Member, 2016-current

Teaching and Learning

1. Master, September 2020, Geovisualisation, practical
2. Master, February 2020, Geospatial Analysis and Modelling, practical

3. Degree, 2019- current, Survey Computations, Lecture and Tutorial
4. Degree, Field Scheme 2 Engineering/ Hydrographic Survey
5. Degree, Field Scheme 1 Cadastral Survey
6. Degree, Managing Geographic Information System, lecture, practical
7. Degree, 2020, Adjustment Computations, practical
8. Degree, 2016, Site Surveying II, Lecture and Practical
9. Degree, 2016, Land Surveying, Lecture and Practical

Student Supervision

Msc. Thesis Supervision (Research)

1. Noraqila Aiman binti Abu 2018876832, Geospatial Big Data Analytic Identifying Tuberculosis (Tb) Hotspot Trend and Prediction in Selangor, Co- Supervisor, **Ongoing**

MSc. Dissertation Supervision (Coursework)

1. Siti Mariam binti Azmi 2018627372, Analysis of Rainfall Pattern Using Global Precipitation Measurement (GPM) Data

BSc. Dissertation Supervision

1. Dzul Hafiz Bin Mohamad Salleh, 2018401798, 3d GIS Application For Landscape Planning In Uitm Shah Alam – **Ongoing**
2. Siti Nuratiqah Syahirah binti Osman, 2017699932, Application of Remote Sensing And GIS In Water Quality Of Kim Kim River. – **Ongoing**
3. Siti Nurazurin binti Ngatheman, 2017643124, Urban Planning and Development In Kuala Lumpur: Pros And Cons Living In Developing City – **Ongoing**
4. Fatin Nur Syahira Bt Abd Hisam, 2017699886, Development of GIS In Safety Road and Accident Road – **Ongoing**
5. Muhammad Syafiq Bin Hamadan, 2017925781 Determination of Soil Erosion Parameters For Malaysian Conditions Using Remote Sensing And Geographic Information System Approach – **Ongoing**
6. Muhammad Ariff Bin Halizam, 2017800246, Mapping of Mental Illness And Substance Abuse Using GIS
7. Muhammad Safwan Bin Kasman, 2017800058, Mapping of Hiking Attractions Using Geospatial Big Data
8. Luqmanulhakim Bin Zulkifli, 2016735193, Space-Time Prediction of Weather Pattern In Selangor Using Machine Learning
9. Mardiah Nor Sing, 2016565661, Identification of Groundwater Potential Zones in Langkawi through Remote Sensing and Geographic Information System (GIS) Technique
10. Siti Nur A'tirah binti Shahimi, 2015229208, Comparison of Watershed Delineation Accuracy Using Different Sources Of Dem Data
11. Najiha Abdullah, 2013614796, Analyzing Twitter Data for Flood Disaster Management In Selangor

12. Fatin Amalina binti Mustapha, 2014531145, E-Kasih Program Effectiveness Analysis Using GIS
13. Farira Raskina binti Mahmud, 2013204374, Location-Allocation Approach in Designing Bus Route System
14. Nurul Fathihah Fatanah binti Zulkifli, 2015832348, The Effect of Bauxite Mining Activities To Vegetation Health
15. Nur Ikma binti Ismail, 2014767343, Mapping Mood: Data Collecting and Socio Analysis Of The Local Community Emotion Per Days With Using GIS Method Form The Text Mining Of Social Network
16. Muhammad Khairul Bin Md Isa, 2014967825, Analysis of User Integrated Data for Demographic Study Of People In Kuala Lumpur
17. Nurul Hidayah binti Rahaman, 2014463414, Urban Growth of Kuala Lumpur Using Image Analysis Techniques
18. Nurdiana Natasha binti Ramlan, 2014321951, Crime Prediction and Analysis Using Arima And Space Time Cube
19. Amira binti Hussin, 2014338059, The Affordability Mapping of Housing Area in Petaling Jaya
20. Nur Larzidani Lop Abdul Rahman, 2013144219, An Evaluation of GIS Mobile Data Collector Application For Mapping
21. Nur Diyana Aqilah Bt Razali, 2013779023, Development of Web-Based GIS Based on Strava Data For Cyclist In Shah Alam.
22. Nur Raihan binti Ahmad Suffian, 2013844682, Studying Health Behavior By Analyzing Twitter Data
23. Muhammad Hasriq Bin Hidzir, 2014821052, 3d City Modelling Of Ipoh To Aid in Urban Planning
24. Mohamad Faizal Bin Mohd Noh, 2013843832, Analysis of User Generated Data For Malaysia Election Result.
25. Siti Hajar Wardah binti Daud, 2013206588, Discovering New Tourism Spots by Using Data From Social Media

Publications

1. NMMN Sing, MA Halim, NI Hashim, N Hashim, N Naharudin, ARA Rasam, 2020, Identification of Groundwater Potential Zones in Langkawi Through Remote Sensing and Geographic Information System (GIS) Techniques, 2020 IEEE 10th International Conference on System Engineering and Technology,
2. NI Hashim, MA Halim, FC Sulaiman, NA Ahmad, 2020, Community Awareness On Mangrove Forest At Taman Alam, kuala Selangor, INTERNATIONAL SYMPOSIUM OF STRAITS OF MELAKA
3. N Naharudin, AH Salleh, MA Halim, Z Abd Latif, Conceptual Framework for Walkability Assessment for Pedestrian Access to Rail Transit Services by using Spatial-MCDA, 2020, IOP Conference Series: Earth and Environmental Science 540 (1), 012023
4. NI Hashim, NF Zaharin, NH Hashim, MA Halim, Temporal Changes of Mangrove Distribution In Mukim Kuala Selangor Using GIS Approach, 2019, IOP Conference Series: Earth and Environmental Science 385 (1), 012027

5. N Hashim, JRA Hamid, NM Saraf, N Naharudin, MA Halim, MH Razali, Spectral Information Extraction from Worldview-2 Image for Urban Features Identification, 2019 IEEE 10th Control and System Graduate Research Colloquium (ICSGRC), 76-81
6. NM Saad, JRA Hamid, NM Saraf, MA Halim, AN Idris, N Khalid, Insolation Model from LiDAR-Derived Topographical Surface Models, 2018 IEEE 8th International Conference on System Engineering and Technology
7. AS Jamaluddin, ARA Rasam, N Khalid, MA Halim, Exploring open source GIS for drug mapping and analysis in Malaysia, 2018 IEEE 8th International Conference on System Engineering and Technology
8. MA Halim, NM Saraf, NI Hashim, ARA Rasam, AN Idris, NM Saad , Discovering new tourist attractions through social media data: a case study in Sabah Malaysia, 2018 IEEE 8th International Conference on System Engineering and Technology
9. NM Saraf, JRA Hamid, MA Halim, ARA Rasam, S Lin, Accuracy assessment of 3-dimensional LiDAR building extraction, 2018 IEEE 14th International Colloquium on Signal Processing &

Research Grants and Contracts

1. Urban Climate Change and Spatial Complexity Evaluation for Adoption of Heat Vulnerability Index (HVI: Spatial Patterns Of Exposure, Sensitivity And Adaptive Capacity), 01/01/2018 - 31/12/2019, Rm30000, UiTM Bestari Grant, Member
2. Conservation of Mangrove Forest Using GIS, 01/07/2018 - 30/06/2020, UiTM Lestari Grant, Rm20000, Member
3. Spatial Walkability Index of Pedestrian Access to Rail Transit Station in Kuala Lumpur City Centre By Using Analytical Network Process And GIS, 01/09/2019 - 31/08/2021, FRGS Racer, Rm51200, Member
4. Development of GIS Database for Data Management of Archeological Artefacts, 01/11/2019- 31/10/2021, Rm20000, member
5. Development of Community Online Mapping System for Accessibility and Treatment Of People With Disabilities In Ampang, 2018, UiTM Lestari Grant, Rm20,000, Member

Consultation & Expertise

1. Kerja-Kerja Konsultansi Urusan Pentadbiran Tanah Untuk TNB, 2020, GIS Team, member
2. Penyelidik Kajian Impak 20 Tahun Penubuhan UiTM, 2020, Research Member
3. Kursus Pengenalan Kepada GIS (geostatistics) Dan Remote Sensing Untuk IMR, 2017, trainer
4. Kursus Geographic Information System GIS) Dan Remote Sensing Di Bawah Program Kursus Awam, 2017, trainer

Innovation, Commercialization & Entrepreneurial

1. DroneSI, One Centre of Studies One Product/Services, Entrepreneurship Acculturation Program & OCOSOP Workshop, Faculty, 2020, Member
2. MOOC for Introduction of Geomatics, National e-Content Development Competition, University Level, 2018, Content Creator

Services & Administration

1. AJK Kualiti FSPU, 01/04/2016 - 01/01/2021
2. Koordinator Pengendalian Peperiksaan Akhir, 01/03/2019 - 28/02/2021
3. AJK Penubuhan Program Akademik Baharu Diploma Teknologi Geospasial, 31/05/2019 - 31/12/2020
4. Koordinator Kursus i-LEARN PPSUG
5. Koordinator Kursus OBE/ Kualiti PPSUG
6. AJK Semakan Kurikulum AP720
7. AJK Unit Pengurusan Kualiti FSPU
8. AJK Pelaksana Program Majlis Anugerah Kecemerlangan Fakulti (MAKEF) 2019
9. GGT 2022 Committee Member of 2021 Geomatics and Geospatial Technology (GGT) Conference, 2019-2021
10. Resource Person for Survey Computations
11. Resource Person for Land Laws and Regulations

Work and Collaboration Experience

1. GIS Programmer, 2013- 2014, Sky-Shine Corporation, GIS technician and Web-GIS developer for Kuala Lumpur Slope Information System (KULSiS)
2. Reviewer, Conference on Geomatics and Geospatial Technology (GGT) 2021

Awards & Recognitions

1. Entrepreneurship Acculturation Program For FSPU Young Lecturers, FSPU Entrepreneurship and MASMED UiTM, DroneSI, Faculty, 2020, Member, Gold Award
2. ECONDEV 2018 (National e-Content Development Competition 2018), Universiti Teknologi MARA, Introduction to Geomatics, National, 2018, Leader, Bronze Award

Contribution to Society

1. Program Matahari dan Kita- Exposing Primary School Students to Geomatics Field, 2017
2. Global Surveyor Day 2019, Universiti Teknologi MARA (UiTM), 2019

Other Activities