

NAFISAH KHALID (Dr)

Senior Lecturer

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Areas of Expertise

Remote Sensing, LiDAR, GIS, Forestry

<https://expert.uitm.edu.my/profile.php?id=GwOSNpkznoOsyU30CVnMBXyVnCHQT+ftYqzsaEtH5EM=>
<https://www.scopus.com/authid/detail.uri?authorId=57207250260>
https://www.researchgate.net/Nafisah_Khalid
<https://scholar.google.com.my/citations?user=jR3pDTsAAAAJ&hl=en>

Personal Information

Nafisah Khalid

Centre of Studies for Surveying Science and Geomatics
Faculty of Architecture, Planning and Surveying

Academic Qualifications

PhD in Built Environment, 2017, Universiti Teknologi MARA
Master in Geographical Information Science, 2010, Universiti Teknologi MARA
Bachelor of Surveying Science and Geomatics (Honours), 2009, Universiti Teknologi MARA
Diploma in Geomatics Science (Natural Resource), 2007, Universiti Teknologi MARA

Teaching and Learning

1. Master, Mac 2018, Remote Sensing Applications, Laboratory
2. Master, September 2018, Advanced Geographical Information Science, Laboratory
3. Degree, Mac 2018, Remote Sensing, Lecture, Laboratory

4. Degree, September 2018, GIS, Laboratory
5. Degree, September 2020, Advanced Photogrammetry, Lecture, Laboratory
6. Degree, September 2020, Dissertation 1, Lecture, Coordinator
7. Degree, September 2020, Digital Image Processing, Lecture, laboratory
8. Degree, September 2020, Field Scheme Photogrammetry/GNSS, Lecture

Student Supervision

Postgraduate (Coursework)

1. Syazwani Husna Binti Mohd Hijazi 2020165633, Crack Pavement Detection by using UAV hyperspectral Imagery, 2020 (Main Supervisor) - Ongoing
2. Syamil Sufri Bin Sahidan 2019124965, Water Quality Assessment Using Remote Sensing Data, 2019 (Co-Supervisor) - Completed

Undergraduate

1. Abdul Syahmi Bin Abd Razak 2018264624, Assessment the Accuracy of Tree Height Derived from UAV Imagery, 2020 (Main Supervisor) - Ongoing
2. Liyana Shahirah Binti Suhaizad 2017740533, Identifying Potential Hazardous Tree in UiTM Shah Alam Using Remote Sensing Dataset, 2020 (Main Supervisor) - Ongoing
3. Sitti Zaharah Binti Lajah 2016490598 High Spatial Resolution Imagery for Individual Tree Classification Detection, 2020 (Main Supervisor) - Ongoing
4. Farhana Binti Shahdzul Kahar, 2016490654, Spatial Analysis of Road Network Impact to Rural Development Growth, 2020 (Main Supervisor) - Ongoing
5. Nur Farhana Athirah Binti Zainudin 2017643062, Analysis the Spatio-Temporal Patterns of Forest Fire Burned Area to Land Surface Temperature Anomaly, 2020 (Main Supervisor) - Ongoing
6. Nur Aina Binti Shahrol 2018287864, Deep Learning Based Oil Palm Tree Detection Using High-Resolution Remote Sensing Images, 2020 (Main Supervisor) - Ongoing
7. Zainol Akhbar Bin Zamrie 2017643134, Aboveground Biomass Estimation Using Tree Height Derived from UAV-Based Imagery, 2020 (Main Supervisor) - Ongoing
8. Nurul Alia Shuhada Binti Shoid 2016490548, Estimation of Individual Tree Height and Aboveground Biomass Using LiDAR Data, 2020 (Main Supervisor) - Completed
9. Hafsa Binti Misman 2016490632, Urban Growth Analysis Using Spatio-Temporal in Puncak Alam, Selangor 2020 (Main Supervisor) - Completed
10. Nur Firzana Binti Bachok @ Ambok Lalek 2016880006, Spatio-Temporal Analysis of Air Pollution in Johor Using GIS Technique, 2020 (Main Supervisor) - Completed
11. Siti Nurhaliza Binti Junaidi 2016826174, Analysis the Relationship Between Forest Fire and Land Surface Temperature, 2020 (Main Supervisor) - Completed
12. Nazatul Asyikin Binti Arham 2016490608, Comparative Study of Building Extraction Using High Spatial Remote Sensing Imagery, 2020 (Main Supervisor) - Completed
13. Siti Hawa Binti Mat Sapuan 2016490696, Property Crime Mapping in Selangor Using R And GIS, 2020 (Main Supervisor) – Completed
14. Healice Julit 2016490484, Spatio-Temporal Analysis of Air Pollutant Concentrations in Relation to School Locations in Johor, 2020 (Main Supervisor) - Completed
15. Stephnie Anak Ambrose Umban 2015145317, Monitoring Heatwaves Using MODIS Dataset: A Case Study of Pendang, Kedah, 2019 (Main Supervisor) - Completed

16. Muhamad Amirul Bin Abdul Majid 2016354481, Assessing the Health of Durian Trees Using High Spatial Resolution Imagery in MARDI Serdang, Selangor, 2019 (Main Supervisor) - Completed
17. Mohd Syafiq Bin Ismail 2016490846, Development of Solar Calculation Tool in Mobile Application, 2019 (Main Supervisor) - Completed
18. Muhammad Hafizuddin Bin Hamdan 2016409226, Assessment the Accuracy of Elevation Height Derived from LiDAR, 2019 (Main Supervisor) - Completed
19. Nur Laila Binti Latib 2016490858, Estimating the Age of Oil Palm Trees Using Object Based Image Analysis, 2019 (Main Supervisor) - Completed
20. Shaili Erzalia Retna Binti Mohd Khairuddin 2016490878, Time Series Analysis of Sea Surface Temperature (SST)At South China Sea, 2019 (Main Supervisor) - Completed
21. Nor Hafizah Binti Moohiti 2016490426, Identification the Effect of Deforestation on Water Quality in Hulu Langat, Selangor, 2019 (Main Supervisor) - Completed

Publications

1. Noraain Mohamed Saraf, Khairun Najwa Kamarolzaman, Nurhafiza Md Saad, Nafisah Khalid, Abdul Rauf Abdul Rasam, Aionon Nisa Othman, 2020, Data Verification of LiDAR-Derived DEM from Different Interpolation Techniques, Book, Charting the Sustainable Future of ASEAN in Science and Technology, PP 361-375, Springer, Singapore.
2. Aionon Nisa Othman, Hazrul Nizam Ismail, Nafisah Khalid, Maisarah Abdul Halim, Noraain Mohamad Saraf, 2019, Peat fire mapping using gis based multi-criteria decision making: study area of Kuala Langat, Selangor, Built Environment Journal 16(1), PP 1-10.
3. Nafisah Khalid, Juazer Rizal Abdul Hamid, Zulkiflee Abd Latif, Abdul Rauf Abdul Rasam, Noraain Mohamad Saraf, 2018, 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, Proceedings, 2019, pp. 128-132, 8606359.
4. Ahmad Safwan Jamaluddin, Abdul Rauf Abdul Rasam, Nafisah Khalid, Maisarah Abdul Halim, 2018, Exploring open source GIS for drug mapping and analysis in Malaysia, 2018 IEEE 8th International Conference on System Engineering and Technology, Proceedings, 2019, pp. 91-96, 8606360.
5. Nurhafiza Md Saad, Juazer Rizal Abdul Hamid, Noraain Mohamed Saraf, Maisarah Abdul Halim, Ahmad Norhisyam Idris, Nafisah Khalid, 2018, Insolation model from LiDAR-derived topographical surface models, 2018 IEEE 8th International Conference on System Engineering and Technology, Proceedings, 2019, pp. 133-138, 8606393
6. Pauziyah Mohammad Salim, Nurul Atikah Ab Aziz, Nafisah Khalid, Aionon Nisa Othman, Siti Aekbal Salleh, 2018, Comparison of segmentation algorithm for urban tree delineation using aerial imagery, 2018 IEEE 8th International Conference on System Engineering and Technology, Proceedings, 2019, pp. 139-143, 8606385
7. Nafisah Khalid, Juazer Rizal Abdul Hamid, Zulkiflee Abd Latif, 2014, Accuracy assessment of tree crown detection using local maxima and multi-resolution segmentation, IOP Conference Series: Earth and Environmental Science, 2014, 18(1), 012023
8. Nafisah Khalid, Juazer Rizal Abdul Hamid, Zulkiflee Abd Latif, 2013, Tree biophysical relationship in the Ampang forest reserve, Proceedings - 2013 IEEE International Conference on Control System, Computing and Engineering, ICCSCE 2013, 2013, pp. 365-369, 6719991

Research Grants and Contracts

1. Member, Kajian Impak 20 Tahun UiTM Aug 2019 – Dec 2020 , RM 150000
2. Member, Development of Spatial Database for Individual Planted Tree Using Geospatial Technology in UiTM, Shah Alam, Feb 2020 – July 2022, RM 25000

Consultation & Expertise

1. Tenaga Nasional Berhad (TNB), Kerja-kerja Konsultansi Urusan Pentadbiran Tanah Untuk TNB, National Level, GIS, Member, 2020-2021
2. Member, Kajian Impak 20 Tahun UiTM Aug 2019 – Dec 2020
3. Kursus Dalam Syarikat – LiDAR Processing, Spatial Works Sdn Bhd, Trainer, 2020.

Innovation, Commercialization & Entrepreneurial

Gold Medal, for the 'One Centre of Studies One Product/Services' Drone SI, Entrepreneurship Acculturation Program & OCOSOP Workshop, 2020

Services & Administration

UNIVERSITY COMMITTEE/ ADMINISTRATION

1. Secretary for Curriculum Review, AP220 (2019 – present)
2. Coordinator OBE for AP220 (2020)
3. Resource Person, Advanced Photogrammetry GLS615 (2020-2024)
4. Resource Person, Dissertation 2 GLS693 (2020-2024)
5. Committee Member, Geomatics and Geospatial Technology (GGT) (2020-2021)
6. Committee Member, Kelestarian UiTM, Setting & Infrastructure (SI) (2019 -Present)
7. Committee Member, Penyuntingan Blueprint Kelestarian UiTM (2020)
8. Committee Member, Quality Managemnet Unit FSPU (2020-Present)
9. Juruaudit Dalam FSPU (2020)

Work and Collaboration Experience

Reviewer, Conference on Geomatics and Geospatial Technology (GGT) 2021.

Awards & Recognitions

Bronze medal, 5th International Built Environment Undergraduate Research Competition (BEURC) 2020, Monitoring the Heat Waves using MODIS Satellite Imageries: A Case Study in Pendang, Kedah, University Level, 2020

Contribution to Society

1. Global Surveyor Day 2019, Universiti Teknologi MARA (UiTM), 2019
2. Program "TAG TREES, STAY GREEN", Universiti Teknologi MARA (UiTM) Shah Alam, 2019