

NORAIN MOHAMED SARAF (Sr)

Lecturer (FSPU)

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Areas of Expertise

Remote Sensing, GIS, 3D LiDAR

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<https://www.scopus.com/authid/detail.uri?authorId=56203925400>

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

<https://scholar.google.com/citations?hl=en&user=G0GymlMAAAAJ>

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<https://prisma.uitm.edu.my/prisma/?doi=DirectoryStafByIdDetail&staffid=Vmtab2QxUnJNVVZXVkJaT1IYcHNWbFpXYUc1TIZUbFNVRIF3UFE9PQ&dsff=Vmtab2QxUnJNVVZXVkJaT1IYcHNWbFpXYUc1TIZUbFNVRIF3UFE9PQ>

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

Noraain Mohamed Saraf,
Centre of Studies for Surveying Science and Geomatics

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

Master of Science in the Specialism of the Built Environment [2017, Universiti Teknologi MARA]

Bachelor of Surveying Science and Geomatics (Honours) [2010, Universiti Teknologi MARA]

Diploma in Geomatics Science (Natural Resources) [2008, Universiti Teknologi MARA]

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

1. Royal Institution of Surveyors Malaysia (RISM), Member, 2019-current
2. Institution of Geospatial and Remote Sensing Malaysia (IGRSM), Member, 2020-current

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

1. Degree, March 2022, Principle of Surveying (GSS411), Lecture, Fieldwork
2. Degree, March 2022, Digital Image Processing (GLS689), Lecture, Laboratory
3. Degree, March 2022, Adjustment Computation (GLS554), Laboratory
4. Degree, March 2022, Advanced Cadastral Surveying (GLS559), Fieldwork
5. Degree, March 2022, Remote Sensing (GLS612), Laboratory

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

1. Nur Nabihah Binti Ghazali (2018228254, Assessment Of Fire Forest Severity In Dungun, Terengganu, Degree, March 2022, Main Supervisor
2. Wardah Nabilah Binti Mustafa (2018228254), Soil Erosion Risk Estimation: A Case Study of The Hulu Langat, Selangor, March 2022, Main Supervisor
3. Muhammad Amirul Azlan Bin Azahar (2018676636), Fastest Multiple Routes For Fresh Vegetables Delivery Using GIS, March 2022, Main Supervisor
4. Siti Norhidayah Binti Shairi (2017958783), Assessment of Urban Climate Due to Urbanization In Kuching City, Sarawak, Degree, October 2021, Main Supervisor
5. Mohamad Fahim Bin Mohamad Lokman (2019311931), Assessment of urban Growth Changes in Klang District using SVM by Different Kernel, Degree, October 2021, Main Supervisor
6. Nur Amira Suraya Binti Zubairi (2018264902), Monitoring health of oil palm vegetation, Degree, March 2021, Degree, Main Supervisor
7. Siti Nurshahirah Afifah Binti Sha-Aladin (2018400642), Estimation of soil erosion using Revised Universal Soil Loss Equation (RUSLE) model in Selangor, Degree, March 2021, Degree, Main Supervisor
8. Norfatimah Hida Binti Jaharuddin (2017699894), Mapping different types of crops in Cameron Highlands using Remote Sensing, Degree, March 2021, Degree, Main Supervisor
9. Nurul Adibah Binti Yusoff (2018425146), Forest reserve encroachment in Gerik, Perak, Degree, March 2021, Degree, Main Supervisor
10. Saidatul Syamimi Binti Saaidan (2017740761), Development changes of Malay reserve land in Perlis, Degree, September 2020, Degree, Main Supervisor
11. Ahmad Nazrin Bin Suid (2016490574), Assessment of Malay reserve land development changes in Selangor, March 2020, Degree, Main Supervisor
12. Jasmine Cruz Binti Mohd Zaini (2016490516), Identifying Suitable Sites for Plantation of Organic Products Using GIS and Remote Sensing techniques, March 2020, Degree, Main Supervisor
13. Nurzalina Idayu Binti Ismail (2017800148), GIS mobile application for food hunting in Selangor (Selangor Food App), March 2020, Degree, Main Supervisor
14. Efizal Jefry Bin Nasrud'din (2017800072), Fastest multiple delivery routes for KFC restaurant in Shah Alam using GIS, March 2020, Degree, Main Supervisor
15. Siti Nur Rahdiah Binti Ibrahim (2015110733), Land use changes in Cameron Highland between year 2016 to 2020, September 2019, Degree, Main Supervisor
16. Muhammad Akmal Bin Abdul Majid (2016711691), Land Legal Issues of Sea Reclamation in Malaysia, September 2019, Degree, Main Supervisor
17. Mohammad Khairulanam Bin Suhimi (2015154863), Assessment of Land Invasion In Kampung Titingan, tawau, Sabah, September 2019, Degree, Main Supervisor
18. Nurul Zulain BintiZulkurnain (2015686394), Mapping of Bamboo Resources In Kemasul, Pahang using Remote Sensing Approach, March 2019, Degree, Main Supervisor
19. Siti Zuhaili Binti Mazlan (2015419688), QR Code-GIS Based Information System for Botanical Garden Management In Shah Alam, March 2019, Degree, Main Supervisor
20. Nurul Alieah Binti Mohamud Ali (2015419392), Developing Mobile Apps For Facilities Reporting In Kolej Seroja, March 2019, Degree, Main Supervisor
21. Muhammad Nurrahim Bin Ruslan (2015104267), Electronic Tourism (E-Tourism) In Selangor, September 2018, Degree, Main Supervisor
22. Khairun Najwa Binti Kamarolzaman (2015111061), Evaluation Error of Lidar DEM Using Different Interpolation Method in GIS Environment, September 2018, Degree, Main Supervisor

23. Nur Syahidatul Nabilah Binti Di (2014767245), PM10 Concentration Using Satellite Imagery In Selangor,
24. Fatinazuawa Binti Mohd Faisal (2014935505), Landuse Changes due Flooding: A Case Study of 2015 Flood in Kota Bharu, March 2018, Degree, Main Supervisor
25. Nur Ain Syafiqah Binti Safiee (2014525277), Relationship Between Restaurant and Childhood Obesities Among Primary School Children In Gemas, Negeri Sembilan, March 2018, Degree, Main Supervisor
26. Norhidaya Binti Azrangi (2014561707), Estimation of Total Suspended Solid (TSS) Using Landsat 8 Imagery at Putrajaya Lake, March 2018, Degree, Main Supervisor

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

1. Wan Hairi Wan Mahsin, Abdul Rauf Abdul Rasam, Noraain Mohamed Saraf and Nafisah Khalid, 2021, Free and open GIS source software for spatial epidemiology and geospatial health in Malaysia: A comparative analysis of the software usability, International Journal of Advanced Technology and Engineering Exploration (IJATEE), Publisher of Peer Reviewed Open Access Journals
2. Shafuan Othman, Maisarah Abdul Halim, Noraain Mohamed Saraf, Siti Aekbal Salleh, 2021, Investigation on Accident Hotspot Area Using Social Media Data, IOP Conference Series: Earth and Environmental Science, IOP Publishing
3. MF Omar, AR Abdul Rasam, N Mohamed Saraf, N Md Saad, N Khalid, 2021, E-Atlas of Health in Selangor, Malaysia, IOP Conference Series: Earth and Environmental Science, IOP Publishing
4. Jasmine Cruz Mohd Zaini, Noraain Mohamed Saraf, Nabilah Naharudin, Abdul Rauf Abdul Rasam, Nurhanisah Hashim, 2021, Identifying Suitable Areas for Plantation of Organic Products Using GIS and AHP, IOP Conference Series: Earth and Environmental Science, IOP Publishing
5. Nurzalina Idayu Ismail, Noraain Mohamed Saraf and Abdul Rauf Abdul Rasam , 2020, GIS and Mapping Mobile Application for Local Food Finder in Shah Alam, Selangor, 2020 IEEE 10th International Conference on System Engineering and Technology (ICSET), IEEE
6. Nurhafiza Md Saad, Muhammad Khairil Asyraf Mohd Shukair, Noraain Mohamed Saraf, Juazer Rizal Abdul Hamid, Noorfatekah Talib, Abdul Rauf Abdul Rasam, 2020, The Potential Area Estimation for Solar Installation Based on Insolation Pattern Derived from LiDAR Points Cloud Data, Book: Charting the Sustainable Future of ASEAN in Science and Technology, Springer Singapore
7. Nurin Syarafina Mohd Hasmizi, Abdul Rauf Abdul Rasam, Noraain Mohamed Saraf, 2020, E-MosqueTourism: Discovering Mosques via Geo-Digital Mapping in Kuala Lumpur, Malaysia, Book: Charting the Sustainable Future of ASEAN in Science and Technology, Springer Singapore
8. Noraain Mohamed Saraf, Khairun Najwa Kamarolzaman, Nurhafiza Md Saad, Nafisah Khalid, Abdul Rauf Abdul Rasam, Ainon Nisa Othman, 2020, Data Verification of LiDAR-Derived DEM from Different Interpolation Techniques, Book: Charting the Sustainable Future of ASEAN in Science and Technology, Springer Singapore, Presenter
9. Nurhanisah Hashim, Juazer Rizal Abdul Hamid, Noraain Mohamed Saraf, Nabilah Naharudin, Maisarah Abdul Halim, Mohamad Hezri Razali, 2019, Spectral Information Extraction from Worldview-2 Image for Urban Features Identification, 2019 IEEE 10th Control and System Graduate Research Colloquium (ICSGRC), IEEE
10. Ainon Nisa Othman, Hazrul Nizam Ismail, Nafisah Khalid, Maisarah Abdul Halim, Noorain Mohamad Saraf, 2019, Peat fire mapping using gis based multi-criteria decision making: study area of Kuala Langat, Selangor, Built Environment Journal, Universiti Teknologi MARA Cawangan Selangor
11. Nurhafiza Md Saad, Juazer Rizal Abdul Hamid, Noraain Mohamed Saraf, Maisarah Abdul Halim, Ahmad Norhisyam Idris, Nafisah Khalid, 2019, Insolation Model from LiDAR-Derived Topographical

Surface Models, 2018 IEEE 8th International Conference on System Engineering and Technology (ICSET), IEEE

12. Abdul Rauf Abdul Rasam, Azri Haziq Azlin, Noraain Mohamed Saraf, 2018, Mobile apps and web gis-based accessible health and social care system for people with disabilities, 2018 IEEE 8th International Conference on System Engineering and Technology (ICSET), IEEE, Presenter
13. Nafisah Khalid, Juazer Rizal Abdul Hamid, Zulkiflee Abd Latif, Abdul Rauf Rasam, Noraain Mohamed 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 (ICSET), IEEE
14. Maisarah Abdul Halim, Noraain Mohamed Saraf, Nur Idzhainee Hashim, Abdul Rauf Abdul Rasam, Ahmad Norhisyam Idris, Nurhafiza Md Saad, 2018, Discovering new tourist attractions through social media data: A case study in Sabah Malaysia 2018 IEEE 8th International Conference on System Engineering and Technology (ICSET), IEEE, Presenter
15. Noraain Mohamed Saraf, Juazer Rizal Abdul Hamid, Maisarah Abdul Halim, Abdul Rauf Abdul Rasam, Saharuddin Lin, 2018, Accuracy assessment of 3-dimensional LiDAR building extraction, 2018 IEEE 14th International Colloquium on Signal Processing & Its Applications (CSPA), IEEE, Presenter
16. Ilham Abd Jalil, Abdul Rauf Abdul Rasam, Nor Aizam Adnan, Noraain Mohamed Saraf, Ahmad Norhisyam Idris, 2018, Accuracy assessment of 3-dimensional LiDAR building extraction, 2018 IEEE 14th International Colloquium on Signal Processing & Its Applications (CSPA), IEEE

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

1. Nor Aizam Adnan, Nafisah Khalid, Siti Aekbal Salleh, Noraain Mohamed Saraf, Nurhanisah Hashim, 2020, Dynamic Physical-Geomorphological Geospatial Beach Erosion Modelling And Assessment, Research Grant UiTM, RM20k, Member, On Going
2. Nafisah Khalid, Noraain Mohamed Saraf, Noriah Othman, Khairul Nizam Tahar, Nor Aizam Adnan, 2020, Identifying The Potential Of Hazardous Trees Using The Integration Of Geospatial Techniques, Research Grant UiTM, RM20k, Member, On Going
3. Abdul Rauf Abdul Rasam, Oliver Ling Hoon Leh, Arnis Binti Asmat, Noraain Mohamed Saraf, 2018, Investigating Airborne Diseases Dynamic In Sabah Towards Public Health Awareness Using Geospatial Big Data System, UiTM Lestari Grant, RM20k, Member, Completed
4. Siti Aekbal Salleh, Pauzyiah Mohamad Salim, Maisarah Abdul Halim, Ahmad Norhisyam Idris, Noraain Mohamed Saraf, 2018, UiTM Bestari Grant, RM30k, Member, Completed

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

1. 8th International Conference on Geomatics and Geospatial Technology (GGT) 2022 with the theme of "Geospatial Technologies: Tackling Global Challenges" in collaboration with UiTM and RISM, Technical Committee
2. UiTM Consultancy Unit (RMI), Tenaga Nasional Berhad (TNB), Kerja-Kerja Konsultansi Urusan Pentadbiran Tanah Untuk TNB, Professional services, 2020-2021, Member
3. Faculty of Architecture, Planning and Surveying, YBhg. Tan Sri Dato' Seri Utama Dr. Arshad Ayub, Project of Land Development (YBhg. Tan Sri Dato' Seri Utama Dr. Arshad Ayub) in Langkawi, Professional services, 2019-2020, Member
4. 7th International Conference on Geomatics and Geospatial Technology (GGT) 2021 with the theme of "Geospatial for Sustainable Development" in collaboration with UiTM and RISM, Technical Committee & Paper Reviewer

5. Journal INSTUN Volume 4 (2021), UAV and Lidar: The Next Big Thing In Survey And Mapping, Paper Reviewer
6. AGeoS2020: Poster Presentation Evaluation, UiTM Perlis, International Sciences, Technology & Engineering Conference (ISTEC): Advanced Geospatial And Surveying (AGeoS) 2020, International Conference, 2020, Paper Reviewer
7. VGOGREEN 2020, Community & Alumni Network (PJIM&A) in collaboration with Faculty of Architecture, Planning and Surveying (FSPU) and Centre for Postgraduate Studies (CGS) UiTM Perak, VGOGREEN2020 (Virtual Go Green: Conference and Publication 2020), International Conference, 2020, Paper Reviewer
8. Short course: LIDAR Processing, Spatial Works Sdn Bhd, Kursus Dalaman Syarikat- LiDAR Processing, 2020, Short course trainer

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

1. MOOC Development, The Virtual International e-Content Development Competition 2021, Getting to Know Land Title, International, 2021, Member, Silver Award
2. DroneSI, One Centre of Studies One Product/Services, Entrepreneurship Acculturation Program & OCOSOP Workshop, Faculty, 2020, Member
3. MOOC Development, National e-Content Development Competition 2018, Getting to GIS, National, 2021, Member, Gold Award

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

1. Resource Person, (01/01/2020-31/12/2024), Centre of Studies, Intermediate Cadastral Surveying
2. Resource Person, (01/01/2020-31/12/2024), Centre of Studies, Introduction to Geomatics
3. Timbalan Pengerusi Peperiksaan, (01/09/2019-28/02/2021), Faculty, Soalan Peperiksaan Akhir
4. JK Member, (01/01/2020-31/12/2023), Centre of Studies, Koordinator Soalan Peperiksaan Akhir
5. JK Member, (01/01/2020-31/12/2023), Centre of Studies, Penyediaan laporan CDL-CQI

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

1. Part time/fulltime Lecturer, 2010-2011, UiTM Seri Iskandar, Perak, Conduct lecture/tutorial/practical related to land surveying courses for Diploma Courses

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

1. The Virtual International e-Content Development Competition 2018, Universiti Teknologi MARA, Getting to know Land Title, International, 2018, Member, Silver Award
2. Majlis Anugerah Kecemerlangan Fakulti FSPU 2020 (MAKEF 2020), Anugerah Penyelidik Harapan (Kategori DM45)
3. Entrepreneurship Acculturation Program For FSPU Young Lecturers, FSPU Entrepreneurship and MASMED UiTM, DroneSI, Faculty, 2020, Member, Gold Award
4. Pertandingan Rekacipta Inovasi Nasional - Kejuruteraan Dan Alam Bina (PRIN-KAB) 2019, Pusat Penyelidikan Pendidikan Kejuruteraan dan Alam Bina, UKM, Geo-Mosque-Visualisation: Visualising Mosques Geoinformation in Kuala Lumpur, National, 2019, Member, Bronze Award

5. Pertandingan Rekacipta Inovasi Nasional - Kejuruteraan Dan Alam Bina (PRIN-KAB) 2019, Pusat Penyelidikan Pendidikan Kejuruteraan dan Alam Bina, UKM, Myhiking@GeoExplore: An Innovative Mobile Applications for Hiking Info Exploration, National, 2019, Member, Bronze Award
6. National e-Content Development Competition 2018, Universiti Teknologi MARA, Getting to know GIS, National, 2018, Member, Gold Award

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

1. Program Imunisasi Covid-19 Kebangsaan (PICK), Kementerian Belia Dan Sukan Daerah Petaling, Sukarelawan Bukan Kesihatan Malaysia Vaccine Support Volunteers (MyVac), 2021, Volunteer

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

1. Conference on Geomatics and Geospatial Technology (GGT) 2022, Universiti Teknologi MARA and Royal Institution of Surveyors Malaysia, International, 2021, Technical Committee
2. Conference on Geomatics and Geospatial Technology (GGT) 2022, Universiti Teknologi MARA and Royal Institution of Surveyors Malaysia, International, 2021, Technical Committee
3. Global Surveyors' Day 2019 (GSD2019), Universiti Teknologi MARA, Surveyors, Express the World, National, 2019, Person In Charge