

Academic Curriculum Vitae

NABILAH NAHARUDIN (Gs, Dr)

Senior Lecturer

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

Research Interest Group – Built Environment and Well-Being

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Areas of Expertise

GIS, Spatial Analysis, Network Analysis, Spatial-MCDA, AHP-ANP

https://expert.uitm.edu.my/profile.php?id=7SDJ+BiQKfOyjE3NDc6GwXkgtnUXIBeukitoaW6yiso=

https://prisma.uitm.edu.my/prisma/?doit=DirectoryStafByIdDetail&staffid=Vmtab2QxUnJOVIZXVkZaT1IYcFdWbGRxV

G1wTlZUbFNVRIF3UFE9PQ&dsff=Vmtab2QxUnJOVlZXVkZaT1lYcFdWbGRxVG1wTlZUbFNVRIF3UFE9PQ

https://publons.com/researcher/3881507/nabilah-naharudin/

https://www.scopus.com/authid/detail.uri?authorId=55956484100

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

https://scholar.google.com/citations?user=HoqKn78AAAAJ&hl=en&authuser=3&oi=ao

Personal Information

Nabilah Naharudin

Centre of Studies for Surveying Science and Geomatics

Academic Qualifications

PhD in Geoinformation Science, 2015 – 2018, Universiti Sains Malaysia

Master in Geographical Information Science, 2013 – 2014, University of Edinburgh

Bachelor of Surveying Science and Geomatics (Honors), 2009 – 2013, Universiti Teknologi MARA

Diploma in Geomatics Science (Fast-Track), 2008 – 2009, Universiti Teknologi MARA

Membership

- 1. Institution of Geospatial and Remote Sensing Malaysia (IGRSM), Member, 2020
- 2. International Society of Photogrammetry and Remote Sensing (ISPRS), Member, 2020
- 3. International Geography Union (IGU) Transport Geography Commission, Member, 2021

Teaching and Learning

POSTGRADUATE DEGREE

- Master, Programming for Spatial Science, Lecture and Practical
 Oct2021 Feb2022, Mar2021 Aug2021, Oct2020 Feb2021, Mar2020 August 2020
- Master, Geospatial Statistics, Lecture and Practical Oct2021 – Feb 2022, Mar2022 – Aug2022
- 3. Master, GIS for Environmental Management, Practical Sept2019 Jan2020, Mar2019 Aug2019

UNDERGRADUATE DEGREE

- 4. Bachelor, Dissertation II, Lecture
 Oct2021 Feb2022, Oct2020 Feb2021
- Bachelor, Dissertation I, Lecture
 Mar2021 Aug2021, Mar2022 Aug2022
- Bachelor, Geographical Information System I, Practical
 Oct2021 Feb2022, Mar2021 Aug2021, Oct2020 Feb2021, Sept2019 Jan2020, Mar2019 Aug2019, Mar2022 Aug2022
- 7. Bachelor, Geographical Information System II, Practical Mar2021 Aug2021
- 8. Bachelor, Field Scheme III, Lecture and Practical Mar2021 Aug2021, Oct2020 Feb2021
- 9. Bachelor, Field Scheme II, Lecture and Practical Mar2020 Aug2021
- Bachelor, Principles of Surveying, Lecture and Practical
 Mar2021 Aug2021, Oct2020 Feb2021, Mar2020 Aug2020, Sept2019 Jan2020
- Bachelor, Site Surveying II, Practical
 Mar2020 Aug2020, Sept2019 Jan2020, Mar2019 Aug2019
- 12. Bachelor, Environmental Studies, Lecture Mar2019 – Aug2019

Student Supervision

POSTGRADUATE DEGREE

- 1. Nurfadhilah binti Ruslan, PhD, Spatial Walkability Index for Pedestrian Access in KL City Centre, Semester 4, Main Supervisor
- 2. Lutfi Bin A. Rahaman, MSc Dissertation, Walkability Analysis on Potential Heritage Trails, Ongoing (March 2022 February 2023), Main Supervisor
- 3. Nurul Huda Binti Ruslan, MSc Dissertation, Transportation Planning through GIS and Multicriteria Analysis, Ongoing (March 2022 February 2023), Main Supervisor

- 4. Mohamad Fariz bin Mohamad Lokman, MSc Dissertation, Hypothesizing the Best Approach Between Heat map and Hot Spot Map in Analyzing Illegal Immigrants at Klang Area, Graduated (February 2021), Main Supervisor
- 5. Shahira Amira binti Ibrahim, MSc Dissertation, Search and Rescue using GIS Analysis, Graduated (February 2021), Main Supervisor
- 6. Kamariah binti Abdullah, MSc Dissertation, Demarcation of Police Jurisdiction Boundary Map Analysis using Geospatial, Graduated (June 2020), Main Supervisor
- 7. Putri Khalilah binti Kamaluddin, MSc Dissertation, Suitable Analysis of Potential Site Off-Campus Accommodation, Graduated (June 2020), Main Supervisor
- 8. Nur Amajieda binti Mohamad Nor, MSc Dissertation, Food delivery Service Performance based on Rider GPS Data using GIS, Graduated (January 2020), Main Supervisor

UNDERGRADUATE DEGREE

- 1. Mohamad Khairul Izzuddin bin Saidi, BSc Dissertation, Determining Optimal Location of Waste-bins by using Spatial-MCDA, Ongoing (Mar2022 Feb2023)
- 2. Muhamad Sufee Farhan bin Md Rafee, BSc Dissertation, Analysing the Efficiency of Rail Transit by Using GIS, Ongoing (Mar2022 Feb2023)
- 3. Ungku Muhamad Dzar bin Ungku Abd Aziz, BSc Dissertation, Impact of Rail-Transits on Urbanization by using GIS, Ongoing (Mar2022 Feb2023)
- 4. Fatin Nurfazwani bt Mohd Nuri, BSc Dissertation, Finding Cycling Routes in Selayang by using AHP and GIS, Ongoing (Oct2021 Aug2022)
- 5. Muhammad Aiman bin Razidi, BSc Dissertation, Sentiment Analysis on Food Delivery Services by Using Python and GIS, Ongoing (Oct2021 Aug2022)
- 6. Nor Hidayah binti Azizan, BSc Dissertation, Finding Potential Sites for Turtle Conservation Sites by using AHP and GIS, Ongoing (Oct2021 Aug2022)
- 7. Nur Syaza Syazwany binti Shaharuddin, BSc Dissertation, Determining Themed Walking Trails in Malacca by using Spatial-MCDA, Ongoing (Oct2021 Aug2022)
- 8. Nur Nadhirah binti Muhammad Roshdy, BSc Dissertation, Rail-Transit Accessibility Index by using Analytical Hierarchy Process (AHP) and GIS, Graduated (February 2022), Main Supervisor
- 9. Akmal Azizi bin Ahmad, BSc Dissertation, Walkability Index in Pasir Gudang using GIS, Graduated (August 2021), Main Supervisor
- 10. Hafiz Asyraaf Bin Amir Adli, BSc Dissertation, Measuring Road Safety Index based on the Road Characteristic by using GIS, Graduated (August 2021), Main Supervisor
- 11. Lutfi Bin A. Rahaman, BSc Dissertation, Green Chain Network for Pedestrian and Cyclists by using Analytical Hierarchical Process (AHP) and GIS, Graduated (August 2021), Main Supervisor
- 12. Nur Amirah Binti Suhaimi, BSc Dissertation, Ambulance Emergency Responses Vulnerability Analysis Towards Traffic Condition Using GIS, Graduated (August 2021), Main Supervisor
- 13. Baggio Anak John, BSc Dissertation, Potential Sites for Micro-Hydropower Station by Using Spatial-MCDA, Graduated (February 2021), Main Supervisor
- 14. Hazmi bin Hashim, BSc Dissertation, Heat Map for Crime, Submitted (February 2021), Main Supervisor
- 15. Nur Nabilah Idzni binti Faisal, BSc Dissertation, Walkable and Bikeable Routes for Contactless Transportation Mode for Post Covid-19, Graduated (February 2021), Main Supervisor

- Athirah Illaina binti Mohammad Azlan, BSc Dissertation, Analyzing Pedestrians Safety to Access LRT Stations Using Analytical Hierarchy Process (AHP) And Geographic Information System (GIS), Graduated (June 2020), Main Supervisor
- 17. Ihsanuddin bin Azam, BSc Dissertation, Mapping Safe Route for School Children Using Spatial-MCDA, Graduated (June 2020), Main Supervisor
- 18. Muhammad Hizamuddin bin Mohd Amir, BSc Dissertation, Analyzing The Impact of Pavement Defects for Motorcycle Road Safety Hotspot, Graduated (June 2020), Main Supervisor
- 19. Mukrimo'az bin Mat Hashim, BSc Dissertation, Finding New Optimal Location of Uniqlo in Greater Kl Using AHP Method and GIS Analysis, Graduated (June 2020), Main Supervisor
- 20. Nadiatul Syahirah binti Rosli, BSc Dissertation, Indoor Navigation Web Apps at Central I-City Mall, Graduated (June 2020), Main Supervisor
- 21. Nur Syazwani bt Rosadlan, BSc Dissertation, Indoor Modelling for Visibility Analysis of Classroom Using Mobile Laser Scanner and GIS, Graduated (June 2020), Main Supervisor
- 22. Wan Aminah binti Wan Ramli, BSc Dissertation, Analyzing The Impact of Street Art towards Street Crime Cases using GIS Analysis, Graduated (June 2020), Main Supervisor
- 23. Nabila Husnina binti Mohd Azman, BSc Dissertation, Modelling Flow of Migration to Malaysia by using Geographic Information System (GIS), Graduated (January 2020), Main Supervisor
- 24. Nur Nasriah Nabilah binti Mohd Nasri, BSc Dissertation, Measuring the Accessibility of Maternal and Neonatal Healthcare Facilities by using AHP and GIS, Graduated (January 2020), Main Supervisor

Publications

- 1. Ruslan, N., Naharudin, N., Salleh, A.H., Abdul Halim, M. & Abd Latif, Z. (2021). Mapping for Indoor Walking Environment from Point Clouds by Using Mobile Mapping Systems. International Journal of Geospatial and Environmental Research, 8(2).
- 2. Amir, M.H.M. & Naharudin, N. (2021). Geospatial Analysis on the Impact of Road Defects on Motorcycle Accidents. IOP Conference Series: Earth and Environmental Science,767(1).
- 3. Salleh, A.H., Naharudin, N., Halim, M.A. & Ruslan, N. (2021). Feasibility Study on Walkable City Through Implementation of Car-Free Zones and its Effect on Traffic Movement in Georgetown, Penang Using GIS Network Analysis. IOP Conference Series: Earth and Environmental Science, 767(1). Corresponding Author.
- 4. Ruslan, N., Naharudin, N., Salleh, A.H., Halim, M.A. & Abd Latif, Z. (2021). Indoor Model for Walking Environment using Mobile Mapping System. IOP Conference Series: Earth and Environmental Science 767 (1). Corresponding Author.
- 5. Zaini, J.C.M., Saraf, N.M., Naharudin, N., Rasam, A.R.A. & Hashim, N. (2021). Identifying Suitable Areas for Plantation of Organic Products Using GIS and AHP. IOP Conference Series: Earth and Environmental Science 767 (1).
- 6. Azlan, A.I.M. & Naharudin, N. (2020). Measuring Safety Index for Pedestrian Path by Using. Built Environment Journal 17(3), 67, 75. Corresponding Author.
- 7. Ruslan, N., Rosadlan, N.S., Naharudin, N. & Abd Latif, Z. (2020). Mapping for Indoor Walking Path using Mobile Laser Scanning. Built Environment Journal 17(3), 43-50. Corresponding Author.
- 8. Naharudin N. & Hashim, M. M. (2020). Conceptual Framework on Finding Optimal Locations of Uniqlo Stores using Spatial Analysis, IOP Conference Series, IOP, Corresponding Author
- 9. Sing, N. M. M. N., Halim, M. A., Hashim, N. I., Hashim, N., Naharudin, N. & Rasam, A. R. A. (2020), Identification of Groundwater Potential Zones in Langkawi Through Remote Sensing and Geographic Information System (GIS) Techniques, IEEEXPlore, IEEE, Fifth Author.

- 10. Sing, N.M.M.N., Halim, M.A., Hashim, N.I., Hashim, N., Naharudin, N. & Rasam, A.R.A. (2020). Identification of Groundwater Potential Zones in Langkawi Through Remote Sensing and Geographic Information System (GIS) Techniques. IEEEXplore.
- 11. Naharudin, N., Salleh, A. H., Halim, M. A. & Abd Latif, Z. (2020). Conceptual Framework for Walkability Assessment for Pedestrian Access to Rail Transit Services by using Spatial-MCDA, IOP Conference Series, IOP, Main/Corresponding Author.
- 12. Hashim, N, Hamid, J. R. A., Saraf, N. M., Naharudin, N., Halim, M. A. & Razali, M. H. (2019). Spectral Information Extraction from Worldview-2 Image for Urban Features Identification, IEEEXplore, IEEE, Forth Author.
- 13. Naharudin, N., Ahamad, M. S. S. & Sadullah, A. F. M. (2019). Criteria Influencing Pedestrian-Friendliness of First/Last Mile Transit Journey using Analytical Network Process (ANP) Group Judgement, AKADEMIKA, UKM, Main/Corresponding Author.
- 14. Naharudin, N., Ahamad, M. S. S. & Sadullah, A. F. M. (2017). Assessing Criteria of the Pedestrian-Friendly First/Last Mile Transit Journey by using Analytical Network Process (ANP) Group Judgment, Proceedings ICOSH-UKM 2017, Main/Corresponding Author.
- 15. Naharudin, N., Ahamad, M. S. S. & Sadullah, A. F. M. (2017). Optimizing Pedestrian-Friendly Walking Path for First and Last Mile Transit Journey by using the Analytical Network Process (ANP) Decision Model and GIS Network Analysis, ISPRS Archive, ISPRS, Main/Corresponding Author.
- 16. Naharudin, N., Ahamad, M. S. S. & Sadullah, A. F. M. (2017). Pedestrian-Attractiveness Score for the First/Last Mile Transit Route using Spatial Data Collected with a Mobile Positioning Application, IEEEXplore, IEEE, Main/Corresponding Author
- 17. Naharudin, N., Ahamad, M. S. S. & Sadullah, A. F. M. (2017). Framework for Developing a Spatial Walkability Index (SWI) for the Light-Rail Transit (LRT) Stations in Kuala Lumpur City Centre using Analytical Network Process (ANP) and GIS, AIP Conference Proceedings. AIP, Main/Corresponding Author
- 18. Naharudin, N., Ahamad, M. S. S. & Sadullah, A. F. M. (2016). GIS Data Collection for Pedestrian Facilities and Furniture using MAPinr for Android, ISPRS Archive, International Society for Photogrammetry and Remote Sensing, Main/Corresponding Author

Research Grants and Contracts

- Nabilah Naharudin, Abdul Hakim Salleh, Maisarah Abdul Halim, Zulkiflee Abd Latif, 2019 2021, Spatial Walkability Index for Pedestrian Access to Rail Transit Station by using ANP and GIS, FRGS-RACER, RM 51 200, Project Leader, Ongoing
- Ali Hassan Mohamed Murid, Zulkiflee Abd Latif, Nabilah Naharudin, Maisarah Abdul Halim (Project Team D), 2019, Development of GIS Database for Data Management of Archeological Artefacts, Collaborative Research Grant, RM 20 000, Team Member

Consultation & Expertise

- 1. UiTM, Tenaga Nasional Berhad, Kerja-Kerja Konsultansi Urusan Pentadbiran Tanah untuk TNB, 2019-2021, Member
- 2. UiTM, Kajian Impak UiTM 50 Tahun, 2019 2020, Research Member
- 3. Advance Geospatial and Surveying Conference (AGeoS) 2020, 2020, Judge for Poster Presentation
- 4. Advance Geospatial and Surveying Conference (AGeoS) 2020, 2020, Reviewer
- 5. 9th International Innovation, Invention & Design Competition (INDES2020), UiTM, 2020, Judge for Presentation

- 6. International Journal for Sustainable Cities and Society, 2020-2021, Reviewer
- 7. 11th RISM International Surveying Conference for Undergraduates, Royal Institution of Surveyors Malaysia, 2019, Vetting Panel

Innovation, Commercialization & Entrepreneurial

- 1. IP/CR/02950 Spatial Walkability Index (SWI) Toolbox (2022)
- 2. IP/CR/02117 Workflow of the Development of Spatial Walkability Index (2021)
- 3. Member for MOOC Development Getting Know Land (2021)

Services & Administration

- 1. Editor, Built Environment Journal (2021)
- 2. Guest Editor, IOP Conference Series (GGT2022) (2022)
- 3. Guest Editor, IOP Conference Series (GGT2021) (2021)
- 4. Resource Person for GIS714, 1 January 2020 31 December 2021
- 5. Resource Person for GLS418, 1 January 2020 31 December 2021
- 6. Resource Person for GLS653, 1 January 2020 31 December 2021
- 7. Committee Member for AIMS/JSU, 1 January 2020 31 December 2021, Department
- 8. Committee Member for RICS, 1 January 2020 31 December 2021, Department
- 9. Committee Member for AP220 Curriculum Review, 2019 2020, Department
- 10. Committee Member for AP720 Curriculum Review, 2020, Department
- 11. Committee Member for RICS Accreditation and Re-Accreditation, 2019 2020, Faculty

Work and Collaboration Experience

- 1. GIS Specialist, 2018, Rekarunding Trafik Sdn Bhd, Developing spatial database for traffic feasibility study
- 2. GIS Expert, 2017 2018, AturTrafik Sdn Bhd, Developing spatial database and performing spatial analysis for First/Last Mile Improvement Study
- 3. Research Project Member, 2017 2019, International Association for Traffic and Safety Society, Consulting the development of traffic accidents analysis in Penang

Awards & Recognitions

- 1. Champion at ESRI Malaysia Young Scholars Award 2022, Rail-Transit Accessibility Index by using AHP and GIS, 2022, Supervisor
- 2. Bronze Medal Best Paper at the 14th RISM International Surveying Conference for Undergraduates 2022, Finding Cycling Routes in Selayang by using AHP and GIS, 2022, Supervisor
- Outstanding Undergraduate Award at Built Environment Undergraduates Research Competition (BEURC) 2021, Finding Potential Routes for Green Lanes in Bandar Baru Bangi by using AHP and GIS, 2021, Supervisor
- 4. Gold Award at Built Environment Undergraduates Research Competition (BEURC) 2021, Finding Potential Routes for Green Lanes in Bandar Baru Bangi by using AHP and GIS, 2021, Supervisor
- 5. Silver Award at Built Environment Undergraduates Research Competition (BEURC) 2021, Potential Sites for Micro-Hydropower Station by using Spatial-MCDA, 2021, Supervisor
- 6. Silver Award at ECONDEV 2021 MOOC

- 7. Winner of ODL Content Development at MAKEF 2021
- Silver Award at Built Environment Undergraduates Research Competition (BEURC), UM, Analysing Accessibility and Level of Services of Maternal and Neonatal Healthcare using AHP and GIS, 2020, Supervisor
- 9. Special Mention Paper at 12th RISM International Surveying Conference for Undergraduates, Royal Institution of Surveyors Malaysia, Indoor Navigation Mobile Apps at Central i-City Mall, International, 2020, Supervisor

Contribution to Society

- 1. Trainer for "IMR Short Course: OLS & GWR" on 27 28 September 2021.
- 2. Speaker for online sharing session with SBPI Temerloh's Form 4 and Form 5 Students "KAMI2.0: Technical Science" on August 7, 2021.
- 3. Speaker for online sharing session with SBPI Temerloh's Form 4 and Form 5 Students "KAMI2.0: Diploma and Bachelor Degree" on July 31, 2021.
- 4. Speaker for online sharing session with SBPI Temerloh's SPM Leavers "Habes SPM, aok nok kone?" on June 18, 2021.
- 5. Speaker for Short Course "Analytical Hierarchy Process (AHP) for GIS Analysis" on May 28, 2021.

Other Activities

- 1. International Conference for Geomatics and Geospatial Technology, 2022, Secretary
- 2. International Conference on Research Methodology for Built Environment and Engineering, 2021, Committee
- 3. International Conference for Geomatics and Geospatial Technology, 2021, Secretary
- 4. Global Surveyors' Day, Centre of Studies for Surveying Science and Geomatics, 2019, Secretary