

SAIFUL AMAN BIN HJ SULAIMAN (Sr, Dr)

Senior Lecturer

Centre of Studies for Surveying Science and Geomatics
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Research Nexus UiTM (ReNeU) : Energy and Environment, Logistic and Transport

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Areas of Expertise

Geodesy, Geomatic, Geospatial and Geodetic Control

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<https://prisma.uitm.edu.my/prisma/?doit=DirectoryStafByIdDetail&staffid=VmtaYVUyTnJNVVZXVkJaT1lYcFdSbFV4VWtKTIZUbFNVRIF3UFE9PQ&dsff=VmtaYVUyTnJNVVZXVkJaT1lYcFdSbFV4VWtKTIZUbFNVRIF3UFE9PQ>
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Personal Information

SAIFUL AMAN BIN HJ SULAIMAN,
Centre of Studies for Surveying Science and Geomatics

Academic Qualifications

PhD in The Specialisms of the Built Environment, 2016, Universiti Teknologi MARA (UiTM)
Master in GIS and Remote Sensing, 2010, Universiti Putra Malaysia (UPM)
B.Sc (Hons) in Surveying Science and Geomatics, 2004, Universiti Teknologi MARA (UiTM)
Diploma in Geomatics Science (Natural Resources), 2001, Universiti Teknologi MARA (UiTM)

Professional Members

1. Royal Institution of Surveyors Malaysia (RISM), Member, 2005-2020
2. Royal Institution of Surveyors Malaysia (RISM), Fellow, 2020- present
3. Institute of Electrical and Electronics Engineers (IEEE), Member, 2010 - present

Teaching and Learning

1. Degree, Oct 2020, Automatic in Surveying (Lecture), Advanced Geodesy (Lecture, Practical), Principles of Surveying (Practical)
2. Degree, Mar 2020, Field Scheme 3 (Lecture, Practical) Automatic in Surveying (Lecture), Advanced Geodesy (Lecture, Practical), Principles of Surveying (Practical)

Student Supervision

1. Liyana Zainudin, 2020286456, The Effects Of Contradictory In Land Use Plans And Policies To Land Revenue In The District Of Petaling, Sesi 2 2020/2021, Co-Supervisor.
2. Nurul Hazwani Binti Hamzah, 2020272586, Analysis Of Safety Culture Implementation In Managing Air Traffic Challenges In Malaysia, Sesi 2 2020/2021, Co-Supervisor.
3. Sharifah Zuraidah Bt Syed Abdul Jalil, 2020260492, A Methodology For Diagnosing Road Traffic Accidents Hotspots In Malaysia. Sesi 2 2020/2021, Co-Supervisor.
4. Sesi 2 2020/2021, Co-Supervisor.
5. Nur Aini Binti Md.nor, 2017489146 , Detection Of Coastal Erosion Prone Area Using Real Hydrographic Data And Open Source Hydrographic Data By Hydraulic Modelling Approach, SESI 1 2017/2018, Main Supervisor.
6. Nur Syahirah Bt Hashim , 2017822382, Comparison Between Real Data Collection With Open Source Data In Hydraulic Modelling, SESI 1 2017/2018, Main Supervisor.
7. Muhamad Fariz Bin Absl Kamarulazman, 2017416054, Malaysia Geodetic Reference Frame Using International Terrestrial Reference Frame (itrf2014), SESI 1 2017/2018, Main Supervisor.
8. Johari Bin Wahab, 2019620996, Deep Learning Application In Eml For Underground Utility Mapping, SESI 1 2019/2020, Main Supervisor.

Publications

1. Mohd Azwan Abbas, Albert K. Chong, Mohamad Aizat Asyraff Mohamad Azmi, Nursyahira Ahmad Fuad, Anuar Aspuri, Mohd Faizi Mohd Salleh, Zulkepli Majid, Khairulnizam M. Idris, Yusuf Drisu Opaluwa, Mohamad Asrul Mustafar, Norshahrizan Mohd Hashim, Saiful Aman Sulaiman (2019). Quality Assessment of Terrestrial Laser Scanner Surface Deviation Analysis in Vegetation Slope Monitoring. Engineering Letters, Accepted by July 16, 2019. Corresponding Authors.

2. Mohd Azwan Abbas, Zulkepli Majid, Albert K. Chong, Mohamad Aizat Asyraff Mohamad Azmi, Mohamad Asrul Mustafar, Khairulnizam M. Idris, Lau Chong Luh, Anuar Aspuri, Norhadija Darwin, Norshahrizan Mohd Hashim and Saiful Aman Sulaiman (2019). Quantitative Evaluation of Scaling Factor on Coordinate Transformation for Time-of-Flight Terrestrial Laser Scanner. *Civil Engineering and Architecture*, Vol. 7, No. 5, Accepted by August 28 2019. Corresponding Authors.
3. Mohd Azwan Abbas, Zulkepli Majid, Albert K. Chong, Mohamad Aizat Asyraff Mohamad Azmi, Mohamad Asrul Mustafar, Khairulnizam M. Idris, Lau Chong Luh, Anuar Aspuri, Norhadija Darwin, Norshahrizan Mohd Hashim and Saiful Aman Sulaiman (2019). Quantitative Evaluation of Scaling Factor on Coordinate Transformation for Time-of-Flight Terrestrial Laser Scanner. The 4th International Conference on Computing, Mathematics and Statistics 2019 (iCMS2019) on April 23-24, 2019 at Langkawi Island, Malaysia. Corresponding Authors.
4. Mohd Azwan Abbas, Nursyahira Ahmad Fuad, Zulkepli Majid, Khairulnizam M. Idris, Yusuf Drisu Opaluwa, Norshahrizan Mohd Hashim and Saiful Aman Sulaiman (2019). Reliability of Terrestrial Laser Scanner Measurement in Slope Monitoring. The 4th International Conference on Research Methodology for Built Environment and Engineering 2019 (ICRMREE2019) on April 24-25, 2019 at Chulalongkorn University, Thailand. Corresponding Authors.
5. Halim, NZ Abdul; Sulaiman, SA; Talib, Kamaluddin; Majeed, ZA. Investigating the national digital cadastral database (NDCDB) data handling within GIS applications. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences-ISPRS Archives*. Corresponding Authors.
6. Halim, NZA; Sulaiman, SA; Talib, Kamaluddin; Isa, MN (2018). Assessing the usability of the NDCDB checklist with Systematic Usability Scale (SUS). *IOP Conference Series: Earth and Environmental Science* 169 (1), 012099. Corresponding Authors.
7. Halim, Nur Zurairah Abdul; Sulaiman, Saiful Aman Hj; Talib, Kamaluddin Hj; Yusof, Othman Mohd; Wazir, Mat Akhir Md; Adimin, Hj Mohamad Kamali (2017). Legal significance of National Digital Cadastral Database (NDCDB) in Malaysia cadastral system. *IEEE 8th Control and System Graduate Research Colloquium (ICSGRC)*, 2017 . Corresponding Authors.
8. Nordin, A. F., Jamil, H., Isa, M. N., Mohamed, A., Tahir, S. H., Musta, B., ... Kadir, A. M. A. (2016). Geological Mapping of Sabah, Malaysia, Using Airborne Gravity Survey. *Borneo Science, the Journal of Science and Technology*. Corresponding Authors.
9. Sulaiman, S. A. H., Naim, N., Talib, K. H., Wazir, M. A. M., & Yusof, O. M. (2016). Deriving orthometric height using global geopotential models (GGMs). In *Control and System Graduate Research Colloquium (ICSGRC)*, 2016 7th IEEE (pp. 193–196). IEEE. Main Authors
10. Sulaiman, S. A. H., Talib, K. H., Yusof, O. M., & Wazir, M. A. M. (2014, June). Geoid Model Estimation without Additive Correction Using KTH Approach for Peninsular Malaysia. *FIG Congress 2014*, At Kuala Lumpur, Malaysia. DOI: 10.13140/2.1.4929.5369. Main Authors
11. Talib, K. H., Sulaiman, S. A. H., Yusof, O. M., Zainal, M. Z., Talib, K. H., & Mohamed, A (2014, June). Absolute and Relative GPS Orthometric Heights using Regional Fitted Geoid. *FIG Congress 2014*, At Kuala Lumpur, Malaysia. DOI: 10.13140/2.1.2308.0969. Corresponding Authors.
12. Saiful Aman Hj Sulaiman, Kamaluddin Hj Talib, Mat Akhir Md Wazir & Othman Mohd Yusof. "Evaluation of Geopotential Geoid Height and Existing Regional Geoid Model" 2013 9th International Colloquium on Signal Processing & Its Applications (CSPA2013) March 8 - 10, 2013. Main Authors.
13. Saiful Aman Hj Sulaiman, Kamaluddin Hj Talib, Mat Akhir Md Wazir & Othman Mohd Yusof " Cross Validation Approach in Qualification of Observed Gravity Data" 2013 IEEE Control and System Graduate Research Colloquium (ICSGRC 2013) 19-20 August 2013. Main Authors.

14. Saiful Aman Hj Sulaiman, Kamaluddin Hj Talib, Mat Akhir Md Wazir , Othman Mohd Yusof & Shafiq Azwan. " Height Discrepancies Based on Various Vertical Datum" 2012 IEEE Control and System Graduate Research Colloquium (ICSGRC 2012) 16-17 July 2012. Main Authors.
15. Saiful Aman Hj Sulaiman, Kamaluddin Hj Talib, Mat Akhir Md Wazir & Othman Mohd Yusof. " Comparison of Gravity Anomalies from Terrestrial Gravity and Recent Geopotential Models over West-Malaysia" 2011 IEEE Control and System Graduate Research Colloquium (ICSGRC 2011) incorporating 2011 IEEE International Conference on System Engineering and Technology (ICSET 2011). 27-28 June 2011. Main Authors.
16. Kamaluddin Hj Talib, Othman Mohd Yusof, Saiful Aman Hj Sulaiman, Mat Akhir Md Wazir and Azani Azizan "Determination of Speed of Sound Using Empirical Equations and SVP" 2011 7th International Colloquium on Signal Processing & Its Applications (CSPA2011) March 4 – 6, 2011. Corresponding Authors.
17. Saiful Aman Hj Sulaiman, Mohamad Asrul Mustafa, Tengku Afrizal Tengku Ali, Mohd Azwan Abbas and Helmi Zulhaidi Mohd Shafri, "Practical Accuracy of VRS RTK Outside the Malaysian Real Time Kinematic Network (MyRTKnet)" 2009 5th International Colloquium on Signal Processing & Its Applications (CSPA2009) March 6 – 8, 2009 {IEEE/SCOPUS/ISI}. Main Authors.
18. Shafri, H.Z.M., and Sulaiman,S.A.H.," GPS Survey Accuracy using Virtual Reference Station (VRS) Outside the Malaysian Real-Time Kinematic Network (MyRTKnet) Services". International Journal of Geoinformatics, Vol 5, No. 2, 2009. ISSN 1686-6576. Corresponding Authors.

Research Grants and Contracts

1. Saiful Aman Hj Sulaiman, Khairul Nizam Tahar, Mohamad Hezri Razali, 2019-2021, Refitting National Gravimetric Geoid Model Towards Centimeter Level GNSS Orthometric Height. LESTARI, RM30,000, Head Project.
2. Saiful Aman Hj Sulaiman, Khairul Nizam Tahar, Rozaimi Che Hasan, Abdullah Hisam Bin Omar , Ami Hassan Md Din, 2019-2021, Detection Of Coastal Erosion Prone Area Using Real Hydrographic Data And Open Source Data By Hydraulic Modeling Approaches, Fundamental Research Grant Scheme (FRGS), RM 128,500.00, Head Project.
3. Khairul Nizam Bin Tahar, Dr. Saiful Aman Bin Hj Sulaiman, Dr. Nafisah Binti Khalid, Mohamad Hezri Bin Razali, Ahmad Norhisyam Bin Idris, 2020 – 2022, Development Of Spatial Database For Individual Planted Tree Using Geospatial Technology In Uitm, Shah Alam Bestari Td (BESTARI TD), RM 25,000.00, Project Member.
4. Profesor Madya Ir Dr Nur Emileen Binti Abdul Rashid, Profesor Madya Ir Dr Zuhani Binti Ismail Khan, Dr. Nor Ayu @ Nor Zalina Binti Zakaria, Dr. Khairul Khaizi Bin Mohd Shariff, Dr. Saiful Aman Bin Hj Sulaiman, Radar Based Drone Detection And Commercial Transportation And Logistics Environment, 2021 – 2022, Malaysia Transportation Institute (MITRANS), RM 20,000.00, Project Member.
5. Dr. Khairul Nizam Bin Tahar, Dr. Saiful Aman Bin Hj Sulaiman, Jasmee Bin Jaafar, Kamaluddin B Hj Talib, Feasibility Study On Uav Positioning For Establishment Of Ground Control Points, 2014 - 2016, Research Acculturation Grant Scheme (RAGS), RM 80,000.00, Project Member.
6. Othman Bin Mohd Yusof, Kamaluddin B Hj Talib, Dr. Saiful Aman Bin Hj Sulaiman Investigation Of Optimal Global Geopotential Model For Local Geoid Height Determination, 2012 – 2014, Research Intensive Faculty Grant (RIF), RM 17,115.00, Project Member.

7. Profesor Dr Abd Manan Bin Samad, Dr. Saiful Aman Bin Hj Sulaiman, Dr. Rohayu Binti Haron Narashid, Land Suitability Map For New Grape Plantation Area: Ahp Multi-Criteria Decision Making Approach, 2010 – 2013, Excellence Fund (DKCM), RM 10,000.00, Project Member.
8. Profesor Dr Wan Mohd Naim B Wan Mohd, Dr. Saiful Aman Bin Hj Sulaiman, Ainon Nisa Othman, Geographical Information System (GIS) Based Multi-Criteria Decision Making (MCDM) For Landslide Hazard Zonation, 2010 – 2013, Excellence Fund (DKCM), RM 15,000.00, Project Member.
9. Profesor Dr Abd Manan Bin Samad, Dr. Saiful Aman Bin Hj Sulaiman, Mat Rahim Bin Ibrahim, Digital Close Range Photogrammetry (DCRP) In Facade Recording And Dense Surface Modeling (DSM) For Cultural Heritage Building In Malaysia, 2010 – 2013, Excellence Fund (DKCM), RM 8,000.00, Project Member.
10. Dr. Saiful Aman Bin Hj Sulaiman, Mohamad Asrul Bin Mustafar, Profesor Madya Dr Mohd Azwan Bin Abbas, Evaluate The Performance And Accuracy Virtual Reference Station Using Minimum Reference Stations. 2008 – 2010, Excellence Fund (DKCM), RM 20,000.00, Principal Investigator.

Consultation & Expertise

1. Contract Research, Jabatan Perancang Bandar dan Wilayah, Kajian Inventori Dan Potensi Pembangunan Badan Air (bekas Lombong Dan Tasik/paya) Negeri Selangor, National, 2016 – 2016, RM 400,000.00, Member.
2. Contract Research, Geodetic Services Sdn Berhad, Menambahbaik Dan Menyelenggara Development Of Ekadaster Sub-system: Localised Adjustment And Append Modul (modul 1,2,3 &4), National, RM 5,000.00, Head.

Innovation, Commercialization & Entrepreneurial

1. IIDEX2020, Innovation, A Spatial Analysis Framework For Determining Road Accident Hotspots For Malaysian Expressways, National, 2020, Members.
2. IIDEX2020, Innovation, Enhancing Your Supply Chain Capabilities With Profesional E-Training, National, 2020, Members.
3. IIDEX2020, Innovation, Learn to Fly Your Drone: Get Professional Flight Training, National, 2020, Members.
4. IIDEX2020, Innovation, S2WAMS: Satellite Shallow Water Bathymetric Mapping System, National, 2020, Head.
5. IIDEX2020, Innovation, The Coastline Modelling, National, 2020, Head.

Services & Administration

1. Head of Research and Publication, 2 Years, Malaysia Institute of Transport, Research and Publication.

Work and Collaboration Experience

1. Permanent University Representative, 2018 - Present, Royal Institution of Surveyors Malaysia (RISM), Plan the RISM activities.
2. Chairmain, 2019- Present, Geodetic Working Group 2: Gravity and Geoid Modelling, Report gravity and geoid research activities to JPDSN.
3. Members, 2019 – Present, Geodetic Working Group 1: Reference Frame, Report Rerefence Frame research activities to JPDSN.
4. Members, 2016 – Present, Jawatankuasa Hidrografi Negara, Report hydrographic research activities to JHN.

Awards & Recognitions

1. Gold Medal, IIDEX2020, Innovation, A Spatial Analysis Framework For Determining Road Accident Hotspots For Malaysian Expressways, National, 2020, Members.
2. Silver Medal, IIDEX2020, Innovation, Enhancing Your Supply Chain Capabilities With Profesional E-Training, National, 2020, Members.
3. Silver Medal, IIDEX2020, Innovation, Learn to Fly Your Drone: Get Professional Flight Training, National, 2020, Members.
4. Silver Medal, IIDEX2020, Innovation, S2WAMS: Satellite Shallow Water Bathymetric Mapping System, National, 2020, Head.
5. Silver Medal, IIDEX2020, Innovation, The Coastline Modelling, National, 2020, Head.

Contribution to Society

1. GLS Speaker's Hub, Royal Institution of Surveyors Malaysia (RISM), Geomatic Technologies & Application to Surveyors, National, 2020, Committee Member and Moderator.
2. GLS Speaker's Hub, Royal Institution of Surveyors Malaysia (RISM), Living with COVID: What about our communication and lifestyle?, National, 2020, Committee Members.
3. GLS Speaker's Hub, Royal Institution of Surveyors Malaysia (RISM), Property Bubble: Property Overhang- Should we be worried? , National, 2020, Committee Members.
4. GLS Speaker's Hub, Royal Institution of Surveyors Malaysia (RISM), Xtended JUPEM Talk Series-1979 New Map, National, 2020, Committee Members.
5. GLS Speaker's Hub, Royal Institution of Surveyors Malaysia (RISM), Xtended JUPEM Talk Series- In Depth on eKadaster, National, 2020, Committee Members.
6. GLS Speaker's Hub, Royal Institution of Surveyors Malaysia (RISM), oh my STRATA, National, 2020, Committee Members.

Other Activities