

Academic Curriculum Vitae



Personal Information:

Full Name: Haval AbdulJabbar Sadeq

Academic Title: Asst. Prof.

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Education:

- PhD in Geomatics in the School of Geographical and Earth Sciences / College of Science and Eng. From the University of Glasgow-Glasgow-UK, 2015.
- MSc. in Surveying in the College of Engineering at the Salahaddin University-Erbil, Iraq, 2000.
- BSc in Civil Engineering in the College of Engineering at the Salahaddin University-Erbil, Iraq, 1996.

Employment:

- 2021-till now A full-time member of the teaching academic staff in the Geomatics Dep. and head of the Consultant Bureau in the College of Engineering at Salahaddin University Erbil.
- 2021-2023 Member and head of the Engineering Consultant Bureau in the College of Engineering at Salahaddin University Erbil.
- 2016-2021 Lecturer and Head of Geomatics (Surveying) Eng. at Salahaddin University-Erbil, and working in the College of Engineering Consultant Bureau to achieve surveying projects and training.
- 2016-2017 Participate in GeonetC Erasmus+ program for the online master's degree.
- 2015-2016 Gained PhD and resume teaching in the Geomatics (Surveying) Eng. at Salahaddin University-Erbil
- 2011-2015 PhD candidate at the University of Glasgow-UK.
- 2009-2011 Teaching Engineering Drawing and Visual Basics in the Surveying Engineering Department at the Salahaddin. University-Erbil,
- 2008-2009 Teaching C++ in the Civil Eng. Dep. and Engineering drawing in the Surveying Eng. Dep at the Salahaddin University-Erbil.
- 2008-2010 Head of the library in the College of Engineering at the Salahaddin University-Erbil.
- 2005-2008 Part-time job contract with the Salahaddin University-Erbil, for teaching Engineering Drawing and Surveying in the College of Engineering.

- 2001-2008 Senior CAD operator and Primavera Scheduler in the United Nations & and private Construction companies (Zozik Group and Zagros Group for engineering)
- 2000-2001 Lecturer Assistant, teaching engineering Drawings in the software Dep. at the Salahaddin University-Erbil
- 1998-2000 Masters candidate in Civil Engineering-Photogrammetry at the Salahaddin University-Erbil.
- 1996-1998 Engineer in the Surveying and AutoCAD lab. In Civil Engineering-Salahaddin University-Erbil

Qualifications

- Professional in the following software:
 - Erdas,
 - Socet GXP,
 - ArcGIS,
 - Civil 3D &AutoCAD,
 - Summit Evolution, and,
 - Primavera Management

Teaching experience:

- Teaching undergraduate and Postgraduate (BSc, High diploma, MSc and PhD)
- Subjects Map Projections, Cartography, PhotogrammetryI&II, C++, Digital photogrammetry, Advanced Photogrammetry, Advanced Digital Photogrammetry.
- ArcGIS lab, photogrammetry lab.

Research and publications

- Sadeq, H.A.J., 2023. Improving Least-Squares Stereo Matching by Using Different Reference Points. J. Indian Soc. Remote Sens. 9. <https://doi.org/10.1007/s12524-023-01699-9>
- D. M. Ali and H. A. Sadeq, "Road Pothole Detection Using Unmanned Aerial Vehicle Imagery and Deep Learning Technique," ZANCO J. PURE Appl. Sci., vol. 34, no. 6, Dec. 2022, doi: 10.21271/ZJPAS.34.6.12.
- Sadeq, H.A. Building Extraction from Stereo Aerial Imagery Using Dynamic Programming. Arab J Sci Eng (2021), 46(3).
- Sadeq, H.A.-J., "Building Extraction from Lidar Data Using Statistical Methods ". Photogrammetric Engineering & Remote Sensing 2021. 87(1): p. 33–42.
- Abdullah, S., Sadeq, H. and Salih, D. (2020) "The use of pixel-based algorithm for automatic change detection of 3D Building from Aerial and Satellite Imagery: Erbil city as a case study", Zanco Journal of Pure and Applied Sciences, 32(2), pp. 24-38. doi: 10.21271/ZJPAS.32.2.4.
- Sadeq, H., "Using Total Probability in Image Template Matching". The International Arab Journal of Information Technology, 2020. 17(3): p. 347-357.
- Sadeq, H.A., "Toward City Web Mapping in developing countries using satellite and stereo aerial imagery: A Case Study". IOP Conference Series: Materials Science and Engineering, 2020. 737: p. 012212.

- Sadeq, H.: CITY MODELLING USING GEOINFORMATICS: A CASE STUDY OF THE COLLEGE OF ENGINEERING CAMPUS, SALAHADDIN UNIVERSITY, IRAQ, *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLII-2/W16, 189–194, <https://doi.org/10.5194/isprs-archives-XLII-2-W16-189-2019>, 2019.
- Sadeq, H. A., 2019. Accuracy assessment using different UAV image overlaps. *Journal of Unmanned Vehicle Systems*, 7(3), pp. 175-193. DOI:10.1139/juvs-2018-0014.
- Mala, B. A., Salih, D. M., & Sadeq, H. A. (2019). Integration of terrestrial laser scanning and digital close-range photogrammetry for heritage documentation. Paper presented at the Second International Conference on Engineering and Innovative Technology SU-ICEIT-2019, Erbil-Iraq.
- Haval A. Sadeq. Employing Smartphone and Compact Camera in Building Measurements. (2018) *Eurasian Journal of Science & Engineering*. (EAJSE)4(1)
- Sadeq HA. Utilizing Geographic Coordinates for postcode Design (2016). In Zanco. *Journal of Pure and Applied Sciences Salahaddin University –Erbil*. 28(5).
- Sadeq H, Drummond J, Li Z. MERGING DIGITAL SURFACE MODELS IMPLEMENTING BAYESIAN APPROACHES. In XXIII Conference of International Society of Photogrammetry and Remote Sensing. Prague-Czech Republic: 2015.
- Sadeq, H. 2015. Merging Digital Surface Models Sourced from Multi-Satellite Imagery and their Consequent Application in Automating 3D Building Modelling, (PhD thesis), University of Glasgow.
- Sadeq, H., Drummond, J. and Li, Z. (2014) “Bayesian Approach to Building Footprint extraction and 3D Modelling from High-resolution Satellite Imagery,” in *Proceedings of the GIS Research UK 22nd Annual Conference*. Glasgow-UK.
NB: The above paper was awarded The Whittles Prize for the “best paper integrating Remote Sensing and GIS”, on a conference participant vote.
- Sadeq, H., Drummond, J. and Li, Z. (2014) “Bayesian approach to building footprint extraction and 3D modelling from high resolution satellite imagery,” *South-Eastern European Journal of Earth Observation and Geomatics*, 3(2S), pp. 185–189
- Sadeq, H., Drummond, J. & Li, Z., 2012. Evaluation of ASTER GDEM v. 2 using GPS checkpoints, OSGB DEM values and photogrammetrically derived DEMs. In XXII Conference of International Society of Photogrammetry and Remote Sensing. Melbourne, Australia, pp. 295-300
- Sadeq, H., 2012. Comparing Ground Survey Data with SRTM Satellite Data: Case Study in North of Iraq. *Al-Rafidain Engineering Journal, Mosul, Iraq*, 20(5), pp.136-147.
- Sadeq, H., 2010. Accuracy Evaluation of SRTM (used in Google Earth) by Comparison with National Topographic Maps (1:50,000) in North of Iraq. *University Of Technology, Baghdad, Iraq.*, 28(21), pp.6337-6346.
- Sadeq, H., 2009. Maximizing Project Control Using Project Management Software Case Study: Ifraz Water Treatment Project in Erbil Governorate. *Zanco. Journal of Pure and Applied Sciences Salahaddin University -Erbil*, 21(4).
- Sadeq, H., 2009. City Growth Monitoring Using Map and Remote Sensing: Case Study Arbil-Kurdistan. *Zanco. Journal of Pure and Applied Sciences Salahaddin University -Erbil*, 21(6).
- Sadeq, H. and Henari, K. (2005) ‘Photogrammetric Road Construction surveying’, *Zanco. Journal of Pure and Applied Sciences Salahaddin University –Erbil, Iraq*, 17(1), pp. 97–103.
- Sadeq, H. 2000. Photogrammetric Road Construction Survey, (Master thesis), Salahaddin University-Erbil.

Conferences and courses attended

- EWDR conference 2022
- BCEE4 conference 2019 in Istanbul-Turkey,
- PIA19 CONFERENCE 2019 in Munich-Germany,
- conference for Engineering 2019 at Salahaddin University-Erbil-Iraq,
- ISPRS Congress in Prague-2016
- GISRuk Conference in Glasgow-2014
- Wavelength conference-Falmouth-UK-2012 (present a poster)
- Socet-GXP in BAE system- UK
- GIS course at Glasgow University-UK
- Bayesian statistics at Glasgow University-UK.

Funding and academic awards

- Award of books, manuals, or other literature published by ASPRS,
- Award of five-year free subscription to Photogrammetric Engineering & Remote Sensing by ASPRS,
- Getting a prize, “Book: High Resolution Optical Satellite imagery”, from Whittles Publishing for the best research paper in integrating GIS and Remote Sensing at GISRUK 2014 Conference- Glasgow-UK.

Professional memberships

Professional Memberships (continuing)

- Member in Kurdistan Engineering Union-Erbil/IRAQ (since 1996)
- Member in ASPRS - American Society for Photogrammetry & Remote Sensing/USA (since 2015)
- Individual Member of the International Society for Photogrammetry and Remote Sensing.

Professional Memberships (previous)

- Member in RSPSoc- Remote Sensing & Photogrammetry Society/ UK.
- Member in CICES-Chartered Institution of CIVIL ENGINEERING SURVEYORS/UK.
- Member in RICS: Royal Institution of Chartered Surveyors/UK.

Professional Social Network Accounts:

- <https://www.researchgate.net/profile/Haval-Sadeq>
- <https://www.linkedin.com/in/haval-sadeq-a63b8133/>
- https://twitter.com/Haval_Sadeq
- <https://scholar.google.com/citations?user=d8v2tAIAAAAJ&hl=en>
- <https://orcid.org/0000-0003-0636-473X>