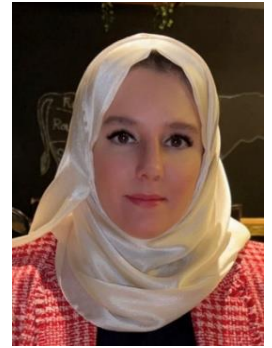


Academic Curriculum Vitae



Personal Information:

Full Name: Sazan Nariman Abdulhamid
Academic Title: Lecturer
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Education:

- M.Sc. in Geotechnical Engineering - Civil Engineering / Duhok University, Iraq (2006).
- B.Sc. in Civil Engineering / College of Engineering/ Salahaddin University-Erbil, Iraq (1999).

Employment:

2006 – To date, Department of Civil Engineering, College of Engineering, Salahaddin University-Erbil. Iraq. Academic staff.

Qualifications

- Lecturer in Civil Eng. Dept., College. of Eng., University of Salahaddin from 2021.
- Assist. Lecturer in Civil Eng. Dept., College. of Eng., University of Salahaddin, from 2006-2022.

Teaching experience:

At the Salahaddin University-Erbil, College of Engineering:

- 2022-2023 Engineering Analysis Fall semester, Civil Engineering Department.
- 2022-2023 Engineering Analysis spring semester, Civil Engineering Department.
- 2020-2021 Engineering Analysis First semester, Civil Engineering Department.
- 2020-2021 Engineering Analysis second semester, Civil Engineering Department.
- 2016-2020 Engineering Analysis, Civil Engineering Department.
- 2015-2016 Soil Mechanics (Laboratory), 3rd stage, Civil Engineering Department.
- 2015-2016 Engineering Drawings, 1st stage, Civil Engineering Department.
- 2013 -2015 Soil Mechanics (Laboratory), 3rd stage, Civil Engineering Department.
- 2011-2013 Soil Mechanics (Laboratory), 3rd stage, Civil Engineering Department.
- 2011-2013 Soil Mechanics (Laboratory), 3rd stage, Dams and water Resources Engineering.
- 2009-2010 Soil Mechanics (Laboratory), 3rd stage, Civil Engineering Department.
- 2009-2010 Soil Mechanics (Laboratory), 3rd stage, Dams and water Resources Engineering.
- 2006-2009 Soil Mechanics (Laboratory), 3rd stage, Civil Engineering Department.

Research and publications

International Journal

- Arsalan Mahmoodzadeh, Mokhtar Mohammadi, Hawkar Hashim Ibrahim, Sazan Nariman Abdulhamid , Hunar Farid Hama Ali, Ahmed Mohammed Hasan, Mohammad Khishe, Hoger Mahmud, 2021. Machine learning forecasting models of disc cutters life of tunnel boring machine. Automation in Construction 128. <https://doi.org/10.1016/j.autcon.2021.103779>.
- Abdulhamid, S.N.; Hasan, A.M.; Aziz, S.Q. Solidification/ Stabilization of Contaminated Soil in a South Station of the Khurmala Oil Field in Kurdistan Region, Iraq. Appl. Sci. **2021**, *11*, 7474. [https://doi.org/ 10.3390/app11167474](https://doi.org/10.3390/app11167474).

- Ahmed Mohammed Hasan, Sazan Nariman Abdulhamid & Hawkar Hashim Ibrahim (2021): Preliminary experimental investigation on the inundating-induced collapse in collapsible soils improved by encased sand column, *Geomechanics and Geoengineering*, DOI: 10.1080/17486025.2021.1955154.
- Mahmoodzadeh, A., Mohammadi, M., Ibrahim, H. H., Noori, K. M. G., Abdulhamid, S. N. et al. (2021). Forecasting sidewall displacement of underground caverns using machine learning techniques. *Automation in Construction*, 123, 103530. DOI 10.1016/j.autcon.2020.103530.
- Mahmoodzadeh A, Mohammadi M, Ibrahim HH, Abdulhamid SN, Salim SG, Ali HFH, Majeed MK (2021) Artificial intelligence forecasting models of uniaxial compressive strength. *Transport Geotech* 27:100499.
- A. Mahmoodzadeh, M. Mohammadi, K. M Gharrib Nooriet al., "Presenting the best prediction model of water inflow into drill and blast tunnels among several machine learning techniques," *Automation in Construction*, vol. 127, article103719, 2021.
- Mahmoodzadeh A, Mohammadi M, Hama Ali HF, Abdulhamid SN, Ibrahim HH, Noori KMG. Dynamic prediction models of rock quality designation in tunneling projects. *Transportation Geotechnics* 27 (2021c) 100497.
- Mahmoodzadeh A, Mohammadi M, Abdulhamid SN, Ibrahim HH, Hama Ali HF, Salim SG. Dynamic reduction of time and cost uncertainties in tunneling projects. *Tunnelling and Underground Space Technology* 109 (2021a) 103774.
- Mahmoodzadeh, A.; Mohammadi, M.; Ghafoor Salim, S.; Farid Hama Ali, H.; Hashim Ibrahim, H.; Nariman Abdulhamid, S.; Nejadi, H.R.; Rashidi, S. Machine Learning Techniques to Predict Rock Strength Parameters. *Rock Mech. Rock Eng.* 2022, 55,1721–1741.
- A. Mahmoodzadeh, M. Mohammadi, H. Farid Hama Ali, H. Hashim Ibrahim, S. Nariman Abdulhamid, and H. R. Nejadi, "Prediction of safety factors for slope stability: comparison of machine learning techniques," *Natural Hazards*, pp. 1-29, 2021.

- Mahmoodzadeh, A.; Mohammadi, M.; Abdulhamid, S.N.; Ali, H.F.H.; Ibrahim, H.H.; Rashidi, S. Forecasting tunnel path geology using Gaussian process regression. *Geomech. Eng.* 2022, 28, 359–374.
- Mahmoodzadeh, A.; Mohammadi, M.; Abdulhamid, S.N.; Ibrahim, H.H.; Ali, H.F.H.; Nejati, H.R.; Rashidi, S. Prediction of Duration and Construction Cost of Road Tunnels Using Gaussian Process Regression. *Geomech. Eng.* 2022, 28, 65–75.
- Mahmoodzadeh, A.; Mohammadi, M.; Abdulhamid, S.N.; Nejati, H.R.; Noori, K.M.G.; Ibrahim, H.H.; Ali, H.F.H. Predicting construction time and cost of tunnels using Markov chain model considering opinions of experts. *Tunn. Undergr. Space Technol.* 2021, 116, 104109.
- Mahmoodzadeh A, Mohammadi M, Ali HFH, Salim SG, Abdulhamid SN, Ibrahim HH, et al. A Markov-based prediction model of tunnel geology, construction time, and construction costs. *Geomech Eng.* (2022) 28:421–35.

Conferences and courses attended

- Attending in the; Fourth Excellent Paper Symposium Held by Kscien Organization for Scientific Research on March 17, 2021 via Zoom platform.
- Participation in the 3rd International Conference on Recent Innovations in Engineering ICRIE 2020 University of Duhok, College of Engineering 9th - 10th September 2020, Kurdistan Region-Iraq.
- Attending Ground Improvement Techniques and Applications Webinar on July 14.2020.
- Attending the Training Workshop on Bologna Process Organized by College of Engineering, Salahaddin University- Erbil on 3 - 4, November, 2019, at Rizgary Hall, College of Engineering
- Attending in the; Second International Conference of Engineering an Innovating Technology, that held at the College of Engineering Salahaddin University-Erbil 14-16 April 2019.
- Participation in the training course about "Statistics and Statistical Data Analysis with SPSS, GraphPad Prism" held in March 10-14, 2019 in Erbil, Kurdistan Region of Iraq at Department of Mathematics, College of Science, Salahaddin University-Erbil.

- Attending the training workshop on Bologna process, organized by College of Engineering , Salahaddin University-Erbil on 3-4, November, 2019, College of Engineering.
- Attendance in the 4th International Engineering Conference (IEC2018) which was held On February 26-27, 2018 in Erbil, Iraq by Ishik University and Erbil Polytechnic University.
- Attending in an English conversation course, University of Salahaddin /Cultural & Social Center & Language Centre on 2018.
- Attending in 6 months training course on method of teaching on 1/11/2009 to 10/5/2010, in Erbil-University of Salahaddin /Cultural & Social Center & Language Center. A certificate was given.

Funding and academic awards

- [Fourth place in the Excellent paper award of 2021](#), In recognition of her paper entitled "Machine learning forecasting models of disc cutters life of tunnel boring machine".
- [Seventh place in the Excellent paper award of 2021](#), In recognition of her paper entitled "Dynamic reduction of time and cost uncertainties in tunneling projects".
- [10th place Excellent Paper Award of 2020](#), In recognition of hes paper entitled "Forecasting sidewall displacement of underground caverns using machine learning techniques".

Professional memberships

- Kurdistan Engineer Union, Erbil, from 1999 to date.
- Iraqi Geotechnical Engineers, Baghdad, Iraq from 2021.

Professional Social Network Accounts:

- University link: <https://academics.su.edu.krd/sazan.abdulhamid>
- LinkedIn link: <https://www.linkedin.com/in/sazan-nariman-64413710b/>
- ResearchGate link: <https://www.researchgate.net/profile/Sazan-Abdulhamid>
- Google scholar link: <https://scholar.google.com/citations?user=d2Dty3wAAAAJ&hl=en>
- Academia link: <https://independent.academia.edu/sazanAbdulhamid>
- ORCID link: <https://orcid.org/0000-0003-4623-6599>