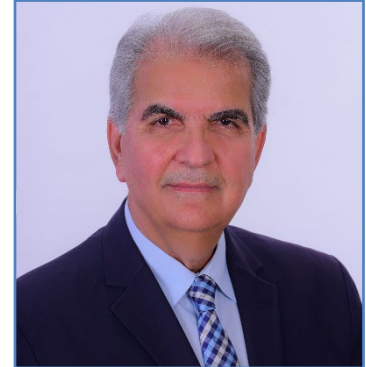


Curriculum Vitae of Prof. Dr.

Ayad Mohammed Fadhil Al-Quraishi

Professor of Applied Remote Sensing and GIS (Ph.D. Eng.)

Petroleum and Mining Engineering Department, Faculty of Engineering,
Tishk International University, Erbil 44001, Kurdistan Region, Iraq



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amfadhil@fulbrightmail.org

amalquraishi@ua.edu

PERSONAL INFORMATION

Name: **Ayad M. Fadhil Al-Quraishi**

Place and date of Birth: **Baghdad, Iraq. 25/08/1956**

Nationality: **Iraqi**

Languages: **Arabic and English.**

Home Address: **Mamostiyan Zanko, Erbil 44001, Kurdistan Region, Iraq**



Webpages:

Google Scholar

<https://scholar.google.com/citations?user=VUyaDLgAAAAJ>

ORCID:

<https://orcid.org/0000-0001-7732-129X>

LinkedIn:

<https://www.linkedin.com/in/ayadalquraishi/>

ResearchGate:

https://www.researchgate.net/profile/Ayad_Al-Quraishi/

Web of Science:

<https://www.webofscience.com/wos/author/record/659368>

Scopus:

<https://www.scopus.com/authid/detail.uri?authorId=57343694600>

Academia:

<https://ishikuniversity.academia.edu/alquraishiamf>

SciProfiles:

<https://sciprofiles.com/profile/alquraishi>

Academic Website:

<https://academics.tiu.edu.iq/user/ayadm.fadhilal-quraishi/>

EDUCATION

China University of Geosciences, Wuhan, CHINA. Ph.D. Engineering in Geodetection and Information Technology (Remote Sensing & GIS) (2004).

Ph.D. DISSERTATION

2004, Ph.D. Eng.	China University of Geosciences, Wuhan, China
Dissertation Title: Application of Geoinformation Technology for Assessing and Monitoring the Desertification and Land Degradation in Northern and North-Western Parts of China	

FELLOWSHIPS

Fulbright Visiting Scholar, Center for Global Change and Earth Observation (CGCEO), **Michigan State University (MSU)**, East Lansing, Michigan, United States. 2011.

Visiting Scholar, College of Arts and Sciences, **University of Alabama (UA)**, Tuscaloosa, Alabama, United States. 2022, and 2025.

PROFESSIONAL POSITIONS

2020-present (Full-time)	Professor of Applied Remote Sensing and GIS, Petroleum and Mining Engineering Departments, Faculty of Engineering, Tishk International University (TIU)	Erbil, Iraq
06/2025-07/2005	Visiting Professor, College of Arts and Sciences, University of Alabama (UA)	Tuscaloosa, AL, U.S.A.
07/2022-09/2022	Visiting Professor, College of Arts and Sciences, University of Alabama (UA)	Tuscaloosa, AL, U.S.A.
2018-2020 (Full-time)	Professor of Applied Remote Sensing and GIS, and Head of the Environmental Engineering Department, College of Engineering, Knowledge University (KNU)	Erbil, Iraq
2016-2018	Professor of Applied Remote Sensing at the Earth Sciences Department, Faculty of Science, University of Kufa (UoK)	Kufa, Iraq
2012-2016	Professor of Applied Remote Sensing, Dept. Soil and Water Sci. College of Agriculture, Salahaddin University (SU)	Erbil, Iraq
06/2011-09/2011	Fulbright Visiting Scholar, Centre for Global Change and Earth Observation (CGCEO), Michigan State University (MSU)	East Lansing, MI, U.S.A.
2007-2012	Assist. Professor of Applied Remote Sensing, Dept. Soil and Water Sci. College of Agriculture, Salahaddin University (SU)	Erbil, Iraq
1980 – 2007	Assist. Lecturer, Lecturer, Assist. Prof. Middle Technical University (MTU)	Baghdad, Iraq

PROFESSIONAL ACTIVITIES

Current Editorial Board Memberships

- Discover Soil, Springer-Nature.
- Eurasian Journal of Science and Engineering, Tishk International University, Iraq
<https://ejse.tiu.edu.iq/index.php/editorial-team/>
- Journal of Geoscience and Environment Protection, SCIRP, USA.
<https://www.scirp.org/journal/editorialboard.aspx?journalid=2432>
- Journal of Engineering and Sustainable Development, University of Al-Mustansiriyah, Iraq
<https://jeasd.uomustansiriyah.edu.iq/index.php/jeasd/about/editorialTeam>
- Journal of Applied Science and Technology Trends, IPAcademia, Iraq.
<https://jastt.org/index.php/jasttpath/about/editorialTeam>
- Journal of Environmental & Earth Sciences (JEES)
<https://journals.bilpubgroup.com/index.php/jees/about/editorialTeam>
- International Journal of Civil Engineering and Technology (IJCIET)
https://iaeme.com/Home/editorial_board/IJCIET#
- Journal of University of Zakho, University of Zakho, Iraq.
<http://sjuo.z.uoz.edu.krd/index.php/sjuoz/about/editorialTeam>
- The Asian Review of Civil Engineering
<https://ojs.trp.org.in/index.php/tarce/about/editorialTeam>
- Iraqi Journal of Desert Studies, University of Anbar, Iraq
<https://ijds.uoanbar.edu.iq/journal/editorial.board>
- Technoarete Transactions on Climate Change and Disaster Management Research
<https://technoaretepublication.org/climate-change/editorial-board.php>

Guest Editor

- Discover Forests, Springer-Nature, Guest Editor.
<https://link.springer.com/collections/cfecfjgci>
- Remote Sensing, MDPI, Switzerland, *Guest Editor*.
https://www.mdpi.com/journal/remotesensing/special_issues/land_ocean_heat_fluxes
- Water, MDPI, Switzerland, *Guest Editor*.
https://www.mdpi.com/journal/water/special_issues/88792YV158
- Journal of Applied Remote Sensing, SPIE, U.S.A., *Guest Editor*
<https://www.spiedigitallibrary.org/journals/journal-of-applied-remote-sensing/volume-16/issue-01/012001/Special-Section-Guest-Editorial--Coastal-Zone-Remote-Sensing-for/10.1117/1.JRS.16.012001.full?SSO=1>

Section Editor

- **Eurasian Journal of Science and Engineering**, Tishk International University, Iraq
<https://ejse.tiu.edu.iq/index.php/editorial-team/>
- **Journal of Engineering and Sustainable Development**, College of Engineering, Mustansiriyah University, Baghdad, Iraq
<https://jeasd.uomustansiriyah.edu.iq/index.php/jeasd>

Peer Review for International and National Scientific Journals and Conferences:

1. Atmosphere, MDPI.
2. Remote Sensing, MDPI.
3. Applied Sciences, MDPI.
4. Sensors, MDPI.
5. Water, MDPI.
6. Land, MDPI.
7. International Journal of Environmental Research and Public Health, MDPI
8. Polymers, MDPI.
9. Sustainability, MDPI.
10. Agronomy, MDPI.
11. International Journal of Applied Earth Observation and Geoinformation, Elsevier.
12. Remote Sensing Applications: Society & Environment, Elsevier.
13. Science of The Total Environment, Elsevier.
14. Journal of Arid Environments, Elsevier.
15. Scientific African, Elsevier.
16. Natural Hazards, Springer.
17. Arabian Journal of Geosciences, Springer.
18. Land Degradation and Development, Springer.
19. Earth Science Informatics, Springer.
20. Environmental Monitoring and Assessment, Springer.
21. Geology, Ecology, and landscapes. Taylor & Francis.
22. Geocarto International, Tayler & Francis.
23. Geomatics, Natural Hazards and Risk, Taylor & Francis.
24. International Journal of Digital Earth, Taylor & Francis.
25. Archives of Agronomy and Soil Science, Taylor & Francis.
26. International Journal of Climatology, Wiley.
27. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing.
28. Geomatics and Environmental Engineering
29. Environmental Engineering Research (EER), South Korea.
30. Applied Remote Sensing, SPIE.
31. Forests and Society.
32. Journal of Environmental Informatics Letter, IOP.
33. Environmental Research Letter, IOPScience.
34. Journal of Environment and Environment Protection (GEP).
35. Science Journal of the University of Zakho (SJUOZ), Kurdistan Region, Iraq.
36. Topic Editor of the (Remote Sensing of Environmental Applications), Frontiers, Switzerland.
37. British Journal of Environment and Climate Change.

38. International Journal of Environmental Science and Development (IJESD)
39. Biodiversitas, Indonesia
40. African Journal of Agricultural Research.
41. Remote Sensing of Land, Gatha Cognition, India
42. Iraqi Geological Journal.
43. Research Journal of Earth and Planetary Sciences.
44. Al-Taqani Scientific Journal, Middle Technical University, Baghdad, Iraq.
45. Zanco Scientific Journal of Salahaddin University-Erbil, Iraqi Kurdistan region.
46. The 4th International Scientific Conference on Environment and Sustainable Development, Environment Research Center & Arab Union for Sustainable Development, 25–27 November 2018 Cairo, Egypt.
47. International Conference on Digital Images Processing (ICDIP).
48. The 1st International Conference on Advanced Science and Engineering 2018 (ICOASE2018), 9-11 October 2018, the University of Zakho and Duhok Polytechnic University, Duhok-Zakho, Kurdistan Region, Iraq.
49. The 4th International Conference on Multimedia and Image Processing (ICMIP 2019), Kuala Lumpur, Malaysia, Jan. 19-21, 2019.
50. The 2019 International Conference on Wastewater Technologies and Environmental Treatment (ICWTET2019), Beijing, China on July 20-21, 2019.
51. The 2019 International Conference on Future Environment Pollution and Prevention (ICFEPP 2019), Beijing, China on 21-23 July 2019.
52. The Technical Committee of the (ICMIP 2019) the 4th Int. Conference on Multimedia and Image Processing (ICMIP 2019) Kuala Lumpur, Jan 19-21, 2019, Malaysia.
53. The Technical Program Committee (TCP) of the IEEE-GRSS (IEEE Geosciences and Remote Sensing Society) Conference M2GARSS, Tunisia, March 2020.
54. The Mediterranean and Middle-East Geoscience and Remote Sensing Symposium 2024 (M2GARSS 2024), April 2024, Oran, Algeria.

COURSES TAUGHT (UNDERGRADUATE AND POSTGRADUATE)

1. Introductory and Advanced Remote Sensing
2. Introductory and Advanced Geographical Information System "GIS"
3. Digital Image Processing and Analysis
4. Research Methodology
5. Academic Writing
6. Digital Mapping
7. Artificial Intelligence (AI)
8. Research Project
9. Remote Sensing & GIS Applications for Environment
10. Cartography
11. Forests Maps
12. Desertification
13. Soil Science
14. Digital Cartography
15. Soil and Water Conservation.
16. Irrigation and Drainage Principles.
17. Environmental Remote Sensing and GIS.

18. Computer Operating Systems.
19. Applications of Remote Sensing and GIS for Soil, Vegetation, and Water Sciences.
20. Scientific Research Methodology.
21. Final Year Research Project Advisor in Remote Sensing, GIS, GPS, and Applications of Geoinformatics Technology for the 4th grade student of the College of Agriculture.
22. Several short courses on Computer Applications, Remote Sensing, and GIS Applications.

Academics & Professional Memberships

- **ASPRS**, (American Society for Photogrammetry and Remote Sensing - the Imaging and Geospatial Information Society, United States, (2018-present).
- **IEEE**, United States, (2012-present).
- **IEEE-GRSS**, the Geoscience and Remote Sensing Society, United States, (2012-present).
- **AAG**, the Association of American Geographers, United States (2013-present).
- **SPIE**, the International Society for Optics and Photonics, United States, (2012-present).
- **JpGU**, the Japan Geosciences Union, Japan, (2018-present).
- **APISE**, the Asia Pacific Institute of Science and Engineering, Hong Kong-China, (2019-present).
- **EGU**, the European Geosciences Union, Germany, (2012-present).
- **APCBES**, the Asia-Pacific Chemical, Biological & Environmental Engineering Society, Senior Member, Hong Kong, China (2011-present).
- **ISEIS**, the International Society for Environmental Information Sciences, Saskatchewan, Canada (2009-present).
- **ISSS**, the Iraqi Soil Science Society, Baghdad, Iraq (2010-present).
- Iraqi Teachers Union, Baghdad, Iraq (1980-present).
- Union of the Iraqi Kurdistan Teachers, Erbil, Iraq (2007-present).
- Iraqi Union of Agricultural Engineers, Baghdad, Iraq (1978-present).

Conferences & Workshops Attended

1. The 7th International Conference on Applied Science, Energy and Environment (ICASEE 2025), January 28-30th, 2025, Erbil, Kurdistan Region, Iraq. <https://conferences.tiu.edu.iq/icasee/index.html>
2. The 10th International Engineering Conference on Advances in Computer and Civil Engineering. Erbil, Kurdistan Region, Iraq, on October 23-24, 2024. <https://conferences.tiu.edu.iq/iec/>
3. The 9th International Conference and Workshop on Basic and Applied Sciences (ICOWOBAS 2023). Tishk International University, Erbil, Kurdistan Region, Iraq. 8-10 May 2023. <https://conferences.tiu.edu.iq/icowobas/committees/>
4. The 5th International Scientific Conference on Environment and Sustainable Development, University of Technology, Baghdad, Iraq and Gaziantep University, Gaziantep, Turkey, 1-2 June 2021.
5. The 2nd Int. Conference of the Karkh University of Science, 2-3 Dec. 2020, Baghdad, Iraq.
6. The 2nd Int. Conf. on Water Resources in Arid Lands. Sultan Qaboos University, Muscat 16-19 March 2020, Muscat, Oman.
7. The Int. Conference on GeoInformation Applications (ICGITA2019), East China University of Technology, 11-13 Oct. 2019, Nanchang, Jiangxi, China.

8. The Munich Remote Sensing Symposium (MRSS19), Technical Munich University (TUM) & ISPRS, Munich 18-19 Sep. 2019, Munich, Germany.
9. The 38th Annual EARSeL Symposium on Earth Observation Supporting Sustainability Research 9-12 July 2018 Chania, Crete, Greece.
10. United Nations/Pakistan, the 4th Int. Conference on the Use of Space Technology for Water Management, 26 February - 2 March 2018, Islamabad, Pakistan.
11. The 1st Sci. Conference of the College of Engineering for the Engineering and Environmental Remote Sensing Applications, University of Kufa, Najaf, Oct. 2014, Najaf, Iraq.
12. The 3rd Scientific Conference of the College of Agriculture, University of Kufa, 24-25 April, 2013, Kufa, Iraq,
13. The 3rd International Conference on Photonics and Images in Agriculture Engineering (PIAGENG 2013), Jan. 27-28, 2013, Sanya, China.
14. The 1st Scientific Conference on Desertification, University of Kirkuk, 16-17 Oct. Kirkuk, Iraq.
15. Map Asia 2006: The 5th Asian Conference in GIS, GPS, Aerial Photography and Remote Sensing. August 2006. Bangkok, Thailand.
16. Workshop of GIS Applications for Infrastructure Planning and Management, Nov. 2005, HRU and ITC, Cairo, Egypt,
17. Map Asia 2004: The 3rd Asian Conference in GIS, GPS, Aerial Photography and Remote Sensing, Aug. 26-29, 2004, Beijing, China.
18. CEOS International Workshop on Rapid Response Information System, Wuhan, China, 2004.
19. Sino-Belgian Workshop on the Land Degradation in North and North-Western, Oct. 2002, Beijing, China.
20. The 1st International Conference of Urban Geoinformatics, Wuhan University, 2001, Wuhan, China.
21. The 3rd Conference of Technical Researches, Ministry of Higher Education and Scientific Research, Nov. 1992, Baghdad, Iraq.
22. The Int. Symposium on Geology of Desert Environment, Nov. 1988, Baghdad, Iraq.

Membership of Conferences' Scientific Committees in the Last Fifteen Years

1. The 2026 3rd International Conference on Remote Sensing and Global Positioning Algorithm (RSGPA 2026). June 12-14, Kunming, China. <https://www.rsgpa.net/>
2. The 8th International Conference on Environmental and Energy Engineering (IC3E 2025). Mercure Okinawa Naha · Okinawa, **Japan**, May 14-17, 2025. <https://www.ic3e.net/index.html>
3. The 7th International Conference on Applied Science, Energy and Environment (ICASEE 2025), January 28-30th, 2025, Erbil, Kurdistan Region, **Iraq**. <https://conferences.tiu.edu.iq/icasee/index.html>
4. The 10th International Engineering Conference on Advances in Computer and Civil Engineering. Erbil, Kurdistan Region, **Iraq**, on October 23-24, 2024. <https://conferences.tiu.edu.iq/iec/>
5. The 2024 International Conference on Remote Sensing and Geographic Information, August 21-23, 2024, **Singapore**.
6. The Mediterranean and Middle-East Geoscience and Remote Sensing Symposium 2024 (M2GARSS 2024), April 2024, Oran, **Algeria**.

7. The 7th DBAR 2023 | Digital Belt and Road-Digital Technology Facilitates Sustainable Development. Beijing, **China**. Sep. 2023.
8. The 9th International Conference and Workshop on Basic and Applied Sciences (ICOWOBAS 2023). Tishk International University, Erbil, Kurdistan Region, **Iraq**. 8-10 May 2023. <https://conferences.tiu.edu.iq/icowobas/committees/>
9. Applied Geoinformatics for Digital Transformation and Environmental Stewardship AGSE 2022. Stuttgart University of Applied Sciences, **Germany**, and the Digital University Kerala, **India**.
10. 2022 IEEE Mediterranean and Middle East Geoscience and Remote Sensing Symposium, March 2022, Istanbul, **Turkey**.
11. SWDCC 2022 the International Conference on: "Soil & Water Resources Management for Combating Desertification in Drylands under Climate Change", 14-17 June 2022. Djerba Island. **TUNISIA**
12. 2022 6th International Conference on Environmental and Energy Engineering (IC3E 2022), Sozhou, **China**, May, 2022. <https://www.ic3e.net/com.html>
13. 2022 International Conference on Computer Science and Software Engineering CSASE, March 2022, University of Duhok, Duhok, **Iraq**. <https://csase.uod.ac/committees/>
14. The Technical Program Committee (TCP) of the IEEE-GRSS (IEEE Geosciences and Remote Sensing Society) Conference M2GARSS, Tunis, **Tunisia**, in March 2020.
15. The 2019 International Conference on Wastewater Technologies and Environmental Treatment (ICWTET2019) was held in Beijing, China, on July 20-21, 2019.
16. The 2019 International Conference on Future Environment Pollution and Prevention (ICFEPP 2019), Beijing, **China** on 21-23 July 2019.
17. The International Scientific Committee of the 1st International Conference on Sciences and Engineering-Erbil (ICSEE-2019), Erbil, Kurdistan Region, **Iraq**, on 11-12 Feb. 2020.
18. The Scientific Committee of the 3rd International Conference on Sustainable Development and Green Buildings (ICSDGB 2019), Shanghai, **China**, Mar.14-16, 2019.
19. The Steering Committee of the IEEE-GRSS (IEEE Geosciences and Remote Sensing Society) Conference M2GARSS, **Tunisia**, in March 2020.
20. The Int. Scientific Committee of the 1st Int. Conference of Applied Science and Engineering-Erbil ICASEE 2019, held on 19-20 August 2019, Erbil, Kurdistan Region, **Iraq**.
21. The Technical Committee of the (ICMIP 2019) the 4th Int. Conference on Multimedia and Image Processing (ICMIP 2019), Kuala Lumpur, Jan 19-21, 2019, **Malaysia**.
22. The Technical Program Committee (TPC) of the International Conference on Advanced Science and Engineering (ICOASE 2019). Sponsored by the IEEE, University of Duhok, **Iraq**.
23. The Scientific Committee of the 4th Int. Conference on the Environment and Sustainable Development. 25–27 November 2018, Cairo, **Egypt**.
24. The Technical Program Committee (TPC) of the International Conference on Advanced Science and Engineering (ICOASE 2018). Sponsored by the IEEE. University of Duhok, **Iraq**.
25. The Ministerial Committee to study the movement of dust storms in Iraq (2017- 2018).
26. The Ministerial Committee of the Earth Sciences experts in the Ministry of Higher Education and Scientific Research, Baghdad, **Iraq** (2017- 2018).
27. The Experts Committee, Faculty of Science, University of Kufa, **Iraq** (2016- 2018).
28. The Scientific Committee, Earth Sciences Department, Faculty of Science, University of

- Kufa, **Iraq** (2016-2018).
29. The Scientific and Postgraduate Studies Committee, the College of Agriculture, Salahaddin University-Erbil, Kurdistan Region, **Iraq** (2011-2016).
 30. The Scientific Committee, Soil, and Water Sci. Dept., College of Agriculture, Salahaddin University-Erbil, Kurdistan Region, **Iraq** (2011-2014).
 31. The Scientific & Postgraduate Studies Committee of the Fields Crops, College of Agriculture, Salahaddin University-Erbil, Iraqi Kurdistan region (2010-2013).
 32. The Scientific Committee, Soil & Water Dept., College of Agriculture, Salahaddin University-Erbil, Kurdistan Region, **Iraq** (2007-2010).
 33. The Academic Promotion Committee of the College of Agriculture, Salahaddin University-Erbil, Kurdistan Region, **Iraq** (2008-2009, 2010-2011).
 34. The Advisory Committee of the project of the Ministry of Agriculture in the Kurdistan Region of Iraq for mapping of the forest cover across the region using remote sensing and GIS techniques (2009-2011).
 35. The Graduate Students Examination Committee, College of Agriculture, Salahaddin University-Erbil, Kurdistan Region, **Iraq** (2007-2008).
 36. The Scientific Committee for improving the syllabuses of Soil and Water Sciences Department courses related to remote sensing, GIS, and Cartography< Salahaddin University, Erbil, Kurdistan Region, **Iraq** (2007-2008).
 37. The Advisory Committee of the Technical Engineering College/Baghdad, FTE, **Iraq** for remote sensing and GIS Training Workshops in cooperation with UN-Habitat (2004-2006).

Scientific Research Interests

Applications of Remote Sensing (RS) and GIS techniques for Assessment and monitoring Environmental changes, Land degradation mapping, Vegetation change detection, Vegetation classification, Water bodies monitoring, Forests, Soil erosion estimation, Land cover-Land use monitoring, Urban sprawl mapping, Crop yield estimation, Digital Soil mapping, Plant multidimensional attributes, Analyses of land cover/land-use change, and Soil characterization.

Other Scientific Activities

2. **Guest Editor**, Discover Forests, Springer Nature. Special Collection “Machine Learning Techniques for Forest Mapping and Vegetation Dynamics Analysis”. https://link.springer.com/collections/cfecfjgcj?fbclid=IwY2xjawJE68xleHRuA2FlbQIxMQABHeyCZtLcmQFjYTdpSo8A1BxNqfKzUY647eeemQpUdjha491-cT8MsOvZnQ_aem_EIEZoOjdAEoJHuCPxXS4aw
3. **Guest Editor**, Remote Sensing Journal, MDPI, Switzerland. The Special Issue "Advances on Land-Ocean Heat Fluxes Using Remote Sensing. URL: https://www.mdpi.com/journal/remotesensing/special_issues/land_ocean_heat_fluxes
4. **Guest Editor**, Journal of Applied Remote Sensing (JARS), SPIE, USA. The special section: Coastal Zone Remote Sensing for Environmental Sustainability. (<https://www.spiedigitallibrary.org/journals/journal-of-applied-remote-sensing/volume-16/issue-01/012001/Special-Section-Guest-Editorial--Coastal-Zone-Remote-Sensing-for/10.1117/1.JRS.16.012001.full?SSO=1>)

5. **Editorial Board Member** of the Journal of Geosciences and Environment Protection (<https://www.scirp.org/journal/editorialboard.aspx?journalid=2432>)
6. **International Editorial Board Member** of the Science- Journal of University of Zakho. (<http://sjuoz.uoz.edu.krd/index.php/sjuoz/about/editorialTeam>)
7. **Representative** of the Knowledge University in the Scientific Agreement for the Scientific Cooperation between the East China University of Technology and the Knowledge University (2018-present).
8. **Head** of the Environmental Engineering Dept., College of Engineering, Knowledge University, Erbil, Kurdistan Region, Iraq (2018-2019).
9. **The Ambassador in Iraq** of the IEEE Geosciences and Remote Sensing Society (IEEE-GRSS) (2016-present).
10. **Director**, Knowledge University for Research Center (2018-2019).
11. **Member** of the International Editorial Board of the Science Journal of the University of Zakho, Kurdistan Region, Iraq (2017-present).
12. **Member** of Board of the Remote Sensing Center, University of Kufa, Iraq (2016-2018).
13. **Head**, and a **member** of more than thirty-five Examining Committees for the postgraduate students of Master and Doctoral Degrees at the Technical Engineering College-Baghdad, University of Technology-Baghdad, Baghdad University, Sulaimaniyah University, Duhok University, and Salahaddin University-Erbil, Kurdistan Region, Iraq.
14. **Supervisor** of 16 postgraduate students in the specialization of Remote Sensing and GIS applications at the universities of Salahaddin-Erbil, Sulaimaniyah, Duhok, Middle Technical, Baghdad, and the United Arab Emirates University (UAEU), U.A.E.
15. **Director** of the Computer Center of the Technical Engineering College-Baghdad, Middle Technical University, Baghdad, Iraq (2004-2006).
16. **Member**, the Advisory Committee at the Technical Engineering College/Baghdad for the remote sensing and GIS Training Workshops (2004-2006).
17. **Visiting Professor** of Remote sensing and GIS at the Universities of Sulaimaniyah and Koya, Iraqi Kurdistan region (2007-2014).
18. **Member** of the GIS Unit, Salahaddin University-Erbil, the Iraqi Kurdistan region (2009-2013).
19. **Representative** of the Ministry of Higher Education and Scientific Research-Kurdistan Region Government (Remote Sensing Expert) at the advisory Committee of the Ministry of Agriculture's project in the Iraqi Kurdistan region for forest cover mapping in Kurdistan region using remote sensing and GIS techniques (2009-2012).

POSTGRADUATE STUDENTS SUPERVISION

Ph.D. Dissertation Supervision (Completed)

1. Abduldaem F.S. Alqasemi. 2020. **Applications of Land Surface Temperature from Satellite Remote Sensing Over the United Arab Emirates (UAE)**. Ph.D. Dissertation, United Arab Emirates University, Al-Ain, United Arab Emirates. (Dissertation completed 2020).
2. Raheem Attafi. 2021. **Drought impacts on the agricultural activities in Basrah Province, Iraq using Remote Sensing and GIS techniques**. Ph.D. Thesis, University of Tehran, Tehran, Iran.
3. Heman A. Ahmed. 2020. **Modeling Spatio-Temporal Pattern of Drought Severity Using Meteorological Data and Geoinformatics Techniques for Erbil Governorate, the Kurdistan Region of Iraq**. Ph.D. Dissertation, College of Agriculture, Salahaddin University, Erbil, Kurdistan Region, Iraq.

4. Salim N. Aziz. 2013. **Soil Units Mapping Using Remote Sensing and GIS for German, Iraqi Kurdistan Region**. Ph.D. Dissertation, Sulaimani University, Sulaimaniyah, Kurdistan Region, Iraq. (Dissertation completed 2013).
5. Abdul Ghafoor Ibrahim Hamad. 2013. **"Soil Salinity monitoring using Landsat images dataset with the aid of GIS for the middle part of Iraq"**. Ph.D. Dissertation, University of Baghdad, Baghdad, Iraq (Dissertation completed 2013).

M.Sc. & High Diploma Theses Completed (Supervision)

1. Bennard Ayivor. 2023. **"Prediction of Soil Chemical Properties using Machine Learning"**. Stuttgart Technology University of Applied Sciences, Germany.
2. Duaa A. Ali. **"Modelling and Monitoring of Urban Sprawl in Baghdad city, Iraq: A Remote Sensing and GIS Approach"** 2018. M.Sc. Thesis, College of Technical Engineering, Middle Technical University, Baghdad, Iraq.
3. Aven O. Bazaz. 2016. **"Drought Monitoring using Satellite-based Indices and SPI for Some Sites in Erbil, Kurdistan Region of Iraq"**. M.Sc. Thesis, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan region (Supervision, Thesis completed 2016).
2. Banaz M. Mustafa. 2015. **"Mapping and Detection of Iron Oxides Using Geoinformatics In Sulaimani Governorate, Kurdistan Region-Iraq"**. M.Sc. Thesis, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan region (Supervision, Thesis completed 2015).
3. Deshni Ali Kamal, 2014. **"Urbanization Expansion and Land Cover Change Monitoring Using Geoinformatics for Erbil-Shaqlawa Areas, the Iraqi Kurdistan Region."** M.Sc. Thesis, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan Region (Supervision. Thesis completed, June 2014).
4. Hawar Abdulrazzaq Sadiq Razvanchy. 2014. **"Modelling some of the soil properties in the Iraqi Kurdistan region using Landsat datasets and the Spectroradiometer"** M.Sc. Thesis, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan region (Supervision, Thesis completed 2014).
5. Kwestan O. Abdulkareem. 2015. **"Calcareous soils Identification using Geoinformatics in Sulaimani Governorate, the Kurdistan Region of Iraq"**. M.Sc. Thesis, Sulaimani University, Sulaimani, Iraqi Kurdistan region (Supervision, Thesis completed 2015).
6. Kurdistan M. Hussein. M.Sc., 2012. **"Agricultural Lands Monitoring Using Remote Sensing and GIS for Three Districts in the Iraqi Kurdistan Region"**. M.Sc. Thesis, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan region (Supervision, Thesis completed 2012).
7. Sarchil H. Qader. 2010. **"Drought Monitoring Using Geomatics for Sulaimani Governorate, Iraqi Kurdistan Region"**. M.Sc. Thesis, Sulaimani University, Sulaimaniyah, Iraqi Kurdistan region (Supervision, Thesis completed 2010).
8. Fuad M. Ahmed. 2009. **"Land Cover Change Detection in Erbil Governorate Using Remote Sensing and GIS Techniques."** M.Sc., Salahaddin University-Erbil, Erbil, Iraqi Kurdistan region (Supervision, Thesis completed 2009).
9. Arsalan S. Ibraheem. 2011. **"Land Use Planning Using Remote Sensing and GIS Techniques for Rania, Iraqi Kurdistan Region"**. High Diploma Thesis, Duhok University, Duhok, Iraqi Kurdistan region (Supervision, Thesis completed 2011).
10. Aven O. Bazaz. 2009. **"Vegetation Cover Density Classification Using Remote Sensing and GIS Techniques"**. Higher Diploma, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan region (Supervision, Thesis completed 2009).

Ph.D. Degrees Students Supervision (Ongoing)

1. Kurdistan Mohammed Hussein. 2024-. **Land degradation Analysis in the Kurdistan region of Iraq: A Geospatial Approach**. Salahaddin University, Erbil, Kurdistan Region, Iraq.
2. Omar Shawkat. 2024-. **Land Use Land Cover Change Monitoring Using Geoinformatics**. Salahaddin University, Erbil, Kurdistan Region, Iraq. Salahaddin University, Erbil, Kurdistan Region, Iraq.
3. Chia Akrawi. 2024-. **Soil Erosion Analysis Using RUSLE and Geoinformation Technology**. Salahaddin University, Erbil, Kurdistan Region, Iraq. Salahaddin University, Erbil, Kurdistan Region, Iraq.

Memberships on Ph.D., M.Sc., and High Diploma Examination Committees

1. Hindav Nasirelddin Habib. 2025. **Spatiotemporal Analysis of Forest Cover Change and Ecosystem Services in Duhok Province, Kurdistan Region, Iraq**. Ph.D. candidate, University of Duhok, Iraq.
2. Saya Ali. 2023. **Remote sensing and GIS for Plant Diseases Monitoring**. M.Sc. Thesis. Salahaddin University, Erbil, Kurdistan Region, Iraq
3. Rebar Tahseen Ali. 2022. **Utilization of Geoinformatics Techniques for Spatiotemporal Environmental Impact Analysis in Duhok Province, Kurdistan Region - Iraq**. Ph.D. Dissertation, Salahaddin University, Erbil, Kurdistan Region, Iraq, (Examined December 2022).
4. Awa Ali Ahmed. 2022. **Geometrical Multicriteria Analysis for Selected Tourist Areas in Sulaimaniyah City Using Remote Sensing Data and AHP Methods**. University of Sulaimani, Kurdistan Region, Iraq.
5. Huner A. Khayyat. 2018. **Assessing the Impacts of Climate Change on Natural Resources in Erbil Area Using Geo-Information and Landsat Data 1992-2014**. Ph.D. Dissertation, Salahaddin University, Erbil, Kurdistan Region, Iraq, (Examined August 2018).
6. Abdulameer S. Dawood Al-Hamdany. 2017. **"Characterization and classification of soil map units of Bahar Al-Najaf using GIS and Remote sensing, and prediction of boundaries between map units"**. Ph.D. Dissertation, Basrah University, Basrah, Iraq (Examined May, 2017).
7. Suhad M. Khudair Al-Hedny. 2012 . **"Drought Monitoring for Northern part of Iraq using Temporal NDVI and Rainfall Relationship"**. Ph.D. Dissertation, College of Agriculture, Baghdad University, Baghdad, Iraq (Examined 11/2012).
8. Haleema Abdil Al-Jabbar Al-Mashehadani. 2012. **"Pedogeomorphic Study of Soil Series in the Iraqi Western Desert (Al-Q'aara Depression) Using Remote Sensing and GIS**. Ph.D. Dissertation, College of Agriculture, Baghdad University, Baghdad, Iraq. (Examined, 2012).
9. Akram A. Khalaf. 2010. **"Approaches To Evaluate the Sealing Performance of Local Materials for Seepage Reduction"**. Ph.D. Dissertation, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan region (Examined, 2010).
10. Ayad H. Abbas. 2010. **"Characterization and Classification of Soil Units of North Kut Project and Prediction of Some Soil Physical Properties by Using GIS and Remote Sensing"**. Ph.D. Dissertation, Baghdad University, Baghdad, Iraq (Examined, 2010).
11. Hashim Y. H. Al-Hadad, 2009. **"The Spatial Variation of the Agricultural Patterns Change in Xabat District, for the Years 2000 And 2004, A Comparative Study Using Statistical Tools and GIS Technique"**. Ph.D. Dissertation, Salahaddin University-Erbil, Iraqi Kurdistan region (Examined, 2009).
12. Zahir A. Amin. 2008. **"Analysis of Fitting Parameters for Infiltration Models through Different Textured Soils."** Ph.D. Dissertation, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan region (Examined 2008).

13. Mohammed M. Mahmood. 2006. **"Digital Geotechnical Map of Baghdad City, Al-Rasafa Side Using GIS and Remote Sensing Techniques"**. Ph.D. Dissertation, University of Technology, Baghdad, Iraq (Examined 2006).
14. Mezahim A. Alwan. 2006. **"Land Use Evaluation Study for Iraqi Marshes Using Remote Sensing And GIS Techniques."** Ph.D. Dissertation, University of Technology, Baghdad, Iraq (Examined 2006).
15. Hussin D. Mohammed. 2006. **"Error Correction Model for Iraqi Maps Using Satellite Image and GPS Data"**. Ph.D. Dissertation, University of Technology, Baghdad, Iraq (Examined 2006).
16. Drakhshan Rasul Abdulrahman Jaf. 2015. **"Land Suitability for Wheat Production under Dry Farming System in Erbil Plain using Remote sensing and GIS."** .M.Sc. Thesis, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan Region (Examined 05/2015).
17. Qaraman Q. Maulud. 2010. **"Rainfall Data Analysis at Erbil City, Iraqi Kurdistan Region"**. Higher Diploma Thesis, Salahaddin University-Erbil, Erbil, Iraqi Kurdistan region (Examined, 2010).
18. Naser M. Salman. 2006. **"Sedimentation Distribution Study in Hmrin Dam Using Remote Sensing Techniques"**. M.Sc. Thesis, University of Technology, Baghdad, Iraq (Examined 2006).
19. Aseel A. Salman. 2006. **"Application of Remote Sensing and GIS Techniques for Soil Surface Description of Al-Hammr Marsh (Southern Iraq)"**. M.Sc. Thesis, University of Technology, Baghdad, Iraq (Examined 2006).
20. Meis Riadh. 2005. **"Development of Aerial Triangulation Using Bundle Adjustment"**. M.Sc. Thesis, Technical College/Baghdad, Foundation of Technical Education FTE, Baghdad, IRAQ (Examined 2005).
21. Rana M. Hamoudi. 2005. **"Accuracy Evaluation of the Maps Resultant from the Aerial and Satellite Images"**. M.Sc. Technical College/Baghdad, Foundation of Technical Education FTE, Baghdad, IRAQ (Examined 2005).

Scientific Evaluation for Textbooks, Ph.D. Dissertation, M.Sc. Theses Scientific Evaluation

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2. Abdulrazzaq T. Ziboon and Emzahim A. Alwan. 2020. *Fundamentals of Remote Sensing* (Text Book). University of Technology, Baghdad, Iraq.
3. Ahmad Salih Al-Mashhadani and Ahmad Madlol Al-Kubaisi. 2012. **"Remote Sensing"**. Textbook, College of Agriculture, Baghdad University, Baghdad, Iraq (Scientific Evaluation, 12/2012).
4. Faisal Ahmed Hatem, 2012. **"Study and Evaluation the planting of the Sand Dunes in Baiji using Remote Sensing Techniques."** M.Sc. Thesis, Tikrit University, Tikrit, Iraq. (Scientific Evaluation, 2012).
5. Nofa Bahzad Mohammad Alsinayi. 2012. **"Characterization and Delineation of Mediterranean Savanna in the Governorate of Duhok, Kurdistan Region- Iraq, Using Ground Truth and Remote Sensing Data."** M.Sc. Thesis, Duhok University, Duhok, Iraqi Kurdistan region (Scientific Evaluation, 2012).
6. Fatin Ghani Shukur Al Sufi. 2010. **"Spatial Relationship between the DEM and the Land Cover of the Duhok Governorate."** M.Sc. Thesis, Duhok University, Duhok, Iraqi Kurdistan region (Scientific evaluation, 2010).

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Scientific Publications (103): Journals & Conferences Papers (78), Springer Books (4), Springer Books Chapters (21).

Journal Papers:

1. Bekalo, D. J., Bojer, A. K., Debelee, T. G., Negera, W. G., Al-Quraishi, A. M. F., Gebissa, K. W., & Deche, A. (2026). Integrating geo-spatial analysis and gray relational approach for wildfire susceptibility mapping in Bale Mountain National Park, Ethiopia. *Trees Forests and People*, 23, 101159. <https://doi.org/10.1016/j.tfp.2026.101159>
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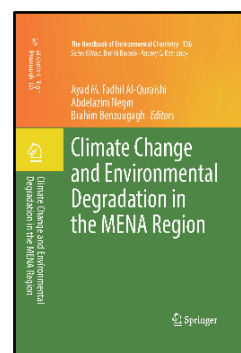
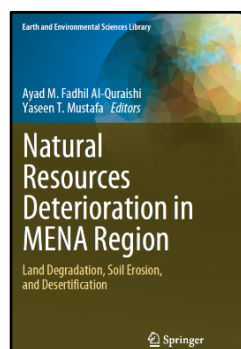
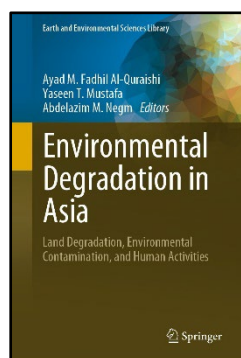
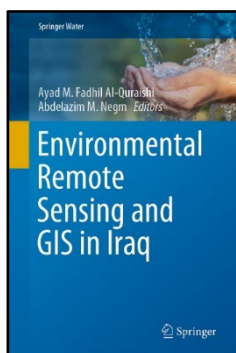
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