

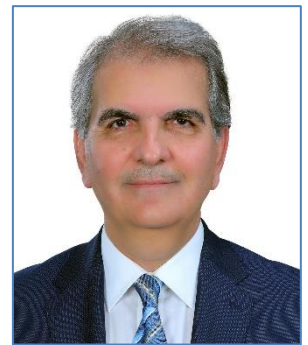
Curriculum Vitae of Prof. Dr.

Ayad Mohammed Fadhil Al-Quraishi

Professor of Applied Remote Sensing and GIS
Petroleum and Mining Engineering Department, Faculty of Engineering, Tishk International
University (TIU), Erbil, Kurdistan Region, Iraq
Ambassador in Iraq of the IEEE Geosciences and Remote Sensing Society (IEEE-GRSS)
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PERSONAL INFORMATION

Place and Date of Birth: **Baghdad, Iraq, 25th Aug. 1956.**
Nationality: **Iraqi**
Marital Status: **Married**
Languages: **Arabic, English, and Chinese.**
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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/

Publons:

<https://publons.com/researcher/1187786/ayad-m-fadhil-al-quraishi>



EDUCATION

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

Ph.D. DISSERTATION

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

FELLOWSHIP

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

PROFESSIONAL POSITIONS

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

PROFESSIONAL ACTIVITIES

Current Editorial Board Memberships and Guest Editor

- Journal of Geoscience and Environment Protection, SCIRP, U.S.A.
<https://www.scirp.org/journal/gep/>
- Journal of Applied Science and Technology Trends, IPAcademia, Iraq.
<https://jastt.org/index.php/jasttpath/about/editorialTeam>
- Journal of Geoinformatics and Environmental Research (*Editor-in-Chief*), IPAcademia, Iraq. <https://jgier.org/index.php/jgier>
- International Journal of Civil Engineering and Technology (IJCIET), India.
https://iaeme.com/Home/editorial_board/IJCIET#
- Remote Sensing, MDPI, Switzerland, *Guest Editor*.
https://www.mdpi.com/journal/remotesensing/special_issues/land_ocean_heat_fluxes
- 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

- Journal of University of Zakho, University of Zakho, Iraq.
<http://sjuoz.uoz.edu.krd/index.php/sjuoz/about/editorialTeam>

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. Digital Mapping.
5. Remote Sensing & GIS applications for Agriculture
6. Cartography
7. Forests Maps
8. Desertification
9. Soil Science
10. Digital Cartography
11. Soil and Water Conservation.
12. Irrigation and Drainage Principles.
13. Environmental Remote Sensing and GIS.
14. Computer Operating Systems.
15. Applications of Remote Sensing and GIS for Soil, Vegetation, and Water Sciences.
16. Scientific Research Methodology.
17. 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.
18. 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).
- **APCBEEES**, 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).

Scientific Conferences & Workshops Attended

1. The 5th International Scientific Conference on Environment and Sustainable Development, University of Technology, Baghdad, Iraq and Gaziantep University, Gaziantep, Turkey, 1-2 June 2021.
2. The 2nd Int. Conference of the Karkh University of Science, 2-3 Dec. 2020, Baghdad, Iraq.
3. The 2nd Int. Conf. on Water Resources in Arid Lands. Sultan Qaboos University, Muscat 16-19 March 2020, Muscat, Oman.
4. The Int. Conference on GeoInformation Applications (ICGITA2019), East China University of Technology, 11-13 Oct. 2019, Nanchang, Jiangxi, China.
5. The Munich Remote Sensing Symposium (MRSS19), Technical Munich University (TUM) & ISPRS, Munich 18-19 Sep. 2019, Munich, Germany.
6. The 38th Annual EARSeL Symposium on Earth Observation Supporting Sustainability Research 9-12 July 2018 Chania, Crete, Greece.
7. United Nations/Pakistan, the 4th Int. Conference on the Use of Space Technology for Water Management, 26 February - 2 March 2018, Islamabad, Pakistan.
8. 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.
9. The 3rd Scientific Conference of the College of Agriculture, University of Kufa, 24-25 April, 2013, Kufa, Iraq,
10. The 3rd International Conference on Photonics and Images in Agriculture Engineering (PIAGENG 2013), Jan. 27-28, 2013, Sanya, China.
11. The 1st Scientific Conference on Desertification, University of Kirkuk, 16-17 Oct. Kirkuk, Iraq.
12. Map Asia 2006: The 5th Asian Conference in GIS, GPS, Aerial Photography and Remote Sensing. August 2006. Bangkok, Thailand.
13. Workshop of GIS Applications for Infrastructure Planning and Management, Nov. 2005, HRU and ITC, Cairo, Egypt,
14. Map Asia 2004: The 3rd Asian Conference in GIS, GPS, Aerial Photography and Remote Sensing, Aug. 26-29, 2004, Beijing, China.
15. CEOS International Workshop on Rapid Response Information System, Wuhan, China, 2004.
16. Sino-Belgian Workshop on the Land Degradation in North and North-Western, Oct. 2002, Beijing, China.
17. The 1st International Conference of Urban Geoinformatics, Wuhan University, 2001, Wuhan, China.
18. The 3rd Conference of Technical Researches, Ministry of Higher Education and Scientific Research, Nov. 1992, Baghdad, Iraq.
19. The Int. Symposium on Geology of Desert Environment, Nov. 1988, Baghdad, Iraq.

Membership of Scientific and Conferences Committees in the Last Fifteen Years

1. 2022 IEEE Mediterranean and Middle-East Geoscience and Remote Sensing

- Symposium, March 2022, Istanbul, **Turkey**.
2. 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** <https://swdcc2022.com/scientific/>
 3. 2022 6th International Conference on Environmental and Energy Engineering (IC3E 2022), Sozhou, **China**, May, 2022. <https://www.ic3e.net/com.html>
 4. 2022 International Conference on Computer Science and Software Engineering CSASE, March 2022, University of Duhok, Duhok, **Iraq**. <https://csase.uod.ac/committees/>
 5. The Technical Program Committee (TCP) of the IEEE-GRSS (IEEE Geosciences and Remote Sensing Society) Conference M2GARSS, Tunis, **Tunisia** in March 2020.
 6. The 2019 International Conference on Wastewater Technologies and Environmental Treatment (ICWTET2019), which will be held in Beijing, **China** on July 20-21, 2019.
 7. The 2019 International Conference on Future Environment Pollution and Prevention (ICFEPP 2019), which will be held in Beijing, **China** on 21-23 July 2019.
 8. The International Scientific Committee of the 1st International Conference on Sciences and Engineering-Erbil (ICSEE-2019), which will be held in Erbil, Kurdistan Region, **Iraq**, on 11-12 Feb. 2020.
 9. The Scientific Committee of the 3rd International Conference on Sustainable Development and Green Buildings (ICSDGB 2019), Shanghai, **China**, Mar.14-16, 2019.
 10. The Steering Committee of the IEEE-GRSS (IEEE Geosciences and Remote Sensing Society) Conference M2GARSS, which will be held in **Tunisia** in March 2020.
 11. The Int. Scientific Committee of the 1st Int. Conference of Applied Science and Engineering-Erbil ICASEE 2019, which held on 19-20 August 2019, Erbil, Kurdistan Region, **Iraq**.
 12. 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**.
 13. The Technical Program Committee (TPC) of the International Conference on Advanced Science and Engineering (ICOASE 2019). Sponsored by the IEEE, University of Duhok, **Iraq**.
 14. The Scientific Committee of the 4th Int. Conference on the Environment and Sustainable Development. 25–27 November 2018, Cairo, **Egypt**.
 15. The Technical Program Committee (TPC) of the International Conference on Advanced Science and Engineering (ICOASE 2018). Sponsored by the IEEE. University of Duhok, **Iraq**.
 16. The Ministerial Committee to study the movement of dust storms in Iraq (2017- 2018).
 17. The Ministerial Committee of the Earth Sciences experts in the Ministry of Higher Education and Scientific Research, Baghdad, **Iraq** (2017- 2018).
 18. The Experts Committee, Faculty of Science, University of Kufa, **Iraq** (2016- 2018).
 19. The Scientific Committee, Earth Sciences Department, Faculty of Science, University of Kufa, **Iraq** (2016-2018).
 20. The Scientific and Postgraduate Studies Committee, the College of Agriculture, Salahaddin University-Erbil, Kurdistan Region, **Iraq** (2011-2016).
 21. The Scientific Committee, Soil, and Water Sci. Dept., College of Agriculture, Salahaddin University-Erbil, Kurdistan Region, **Iraq** (2011-2014).
 22. The Scientific & Postgraduate Studies Committee of the Fields Crops, College of Agriculture, Salahaddin University-Erbil, Iraqi Kurdistan region (2010-2013).
 23. The Scientific Committee, Soil & Water Dept., College of Agriculture, Salahaddin

- University-Erbil, Kurdistan Region, **Iraq** (2007-2010).
24. The Academic Promotion Committee of the College of Agriculture, Salahaddin University-Erbil, Kurdistan Region, **Iraq** (2008-2009, 2010-2011).
 25. 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).
 26. The Graduate Students Examination Committee, College of Agriculture, Salahaddin University-Erbil, Kurdistan Region, **Iraq** (2007-2008).
 27. 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).
 28. 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 the 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

1. **The Ambassador in Iraq of the IEEE Geosciences and Remote sensing society (IEEE-GRSS) (2016-present).**
2. **Editor-in-Chief**, the Journal of Geoinformatics and Environmental Research. IPAcademia, Duhok, Iraq (<https://jgier.org/index.php/jgier>).
3. **Guest Editor**, Remote Sensing Journal, MDPI, Switzerland. The Special Issue 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. **Director**, Knowledge University for Research Center (2018-2019).

10. **Member** of the International Editorial Board of the Science Journal of the University of Zakho, Kurdistan Region, Iraq (2017-present).
11. **Member** of Board of the Remote Sensing Center, University of Kufa, Iraq (2016-2018).
12. **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.
13. **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.
14. **Director** of the Computer Center of the Technical Engineering College-Baghdad, Middle Technical University, Baghdad, Iraq (2004-2006).
15. **Member**, the Advisory Committee at the Technical Engineering College/Baghdad for the remote sensing and GIS Training Workshops (2004-2006).
16. **Visiting Professor** of Remote sensing and GIS at the Universities of Sulaimaniyah and Koya, Iraqi Kurdistan region (2007-2014).
17. **Member** of the GIS Unit, Salahaddin University-Erbil, the Iraqi Kurdistan region (2009-2013).
18. **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).

Peer Reviewing for the Int/National Scientific Journals and Conferences:

1. Atmosphere, MDPI.
2. Remote Sensing, MDPI.
3. Applied Sciences, MDPI.
4. Sensors, MDPI.
5. Sustainability, MDPI.
6. Agronomy, MDPI.
7. International Journal of Applied Earth Observation and Geoinformation, Elsevier.
8. Remote Sensing Applications: Society & Environment, Elsevier.
9. Science of The Total Environment, Elsevier.
10. Scientific African, Elsevier.
11. Natural Hazards, Springer.
12. Arabian Journal of Geosciences, Springer.
13. Land Degradation and Development, Springer.
14. Earth Science Informatics, Springer.
15. Environmental Monitoring and Assessment, Springer.
16. Geocarto International, Tayler & Francis.
17. Geomatics, Natural Hazards and Risk, Taylor & Francis.
18. International Journal of Digital Earth, Taylor & Francis.
19. Archives of Agronomy and Soil Science, Taylor & Francis.
20. International Journal of Climatology, Wiley.
21. Environmental Engineering Research (EER), South Korea.
22. Applied Remote Sensing, SPIE.
23. Forests and Society.
24. Journal of Environmental Informatics Letter, IOP.
25. Environmental Research Letter, IOPScience.

26. Journal of Environment and Environment Protection (GEP).
27. Science Journal of the University of Zakho (SJUOZ), Kurdistan Region, Iraq.
28. Topic Editor of the (Remote Sensing of Environmental Applications), Frontiers, Switzerland.
29. British Journal of Environment and Climate Change.
30. International Journal of Environmental Science and Development (IJESD)
31. African Journal of Agricultural Research.
32. Remote Sensing of Land, Gatha Cognition, India
33. Research Journal of Earth and Planetary Sciences.
34. Al-Taqani Scientific Journal, Middle Technical University, Baghdad, Iraq.
35. Zanco Scientific Journal of Salahaddin University-Erbil, Iraqi Kurdistan region.
36. The 4th International Scientific Conference on Environment and Sustainable Development, Environment Research Center & Arab Union for Sustainable Development, 25–27 November 2018 Cairo, Egypt.
37. International Conference on Digital Images Processing (ICDIP).
38. 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.
39. The 4th International Conference on Multimedia and Image Processing (ICMIP 2019), Kuala Lumpur, Malaysia, Jan. 19-21, 2019.
40. The 2019 International Conference on Wastewater Technologies and Environmental Treatment (ICWTET2019), Beijing, China on July 20-21, 2019.
41. The 2019 International Conference on Future Environment Pollution and Prevention (ICFEPP 2019), Beijing, China on 21-23 July 2019.
42. 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.
43. The Technical Program Committee (TCP) of the IEEE-GRSS (IEEE Geosciences and Remote Sensing Society) Conference M2GARSS, which will be held in Tunisia in March 2020.

POSTGRADUATE STUDENTS SUPERVISION

Ph.D. Dissertation Supervision (Completed)

1. 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.
2. 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).
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 Germian, 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. 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.
2. 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. and Master Degrees Students Supervision (Ongoing)

1. Raheem N. Attafi. 2017. **"Spatial-Temporal Modeling of Drought and its Impacts on Agricultural Activities in Iraq using Remote Sensing and GIS"**. Ph.D. study, Faculty of Geography, University of Tehran, Iran.
2. Nofa Bahzad. 2021. **"Forest Monitoring in Duhok, Kurdistan Region of Iraq Using Geoinformatics and Machine Learning"**. Ph.D. Study. University of Duhok, Duhok, Kurdistan Region, Iraq.

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

1. 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).
2. 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).
 3. 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).
 4. Haleema Abdil Al-Jabbar Al-Mashehadani. 2012. **“Pedogeomorphic Study of Soil Series in the Iraqi Western Desert (Al-Q’aaara Depression) Using Remote Sensing and GIS**. Ph.D. Dissertation, College of Agriculture, Baghdad University, Baghdad, Iraq. (Examined, 2012).
 5. 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).
 6. 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).
 7. 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).
 8. 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).
 9. 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).
 10. 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).
 11. 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).
 12. 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).
 13. 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).
 14. Naser M. Salman. 2006. **“Sedimentation Distribution Study in Hmrin Dam Using Remote Sensing Techniques”**. M.Sc. Thesis, University of Technology, Baghdad, Iraq (Examined 2006).
 15. 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).
 16. 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).

17. 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).

Text Book and M.Sc Theses Scientific Evaluation

1. Abdulrazzaq T. Ziboon and Emzahim A. Alwan. 2020. **Fundamentals of Remote Sensing** (Text Book). University of Technology, Baghdad, Iraq.
2. Ahmad Salih Al-Mashhadani and Ahmad Madlol Al-Kubaisi. 2012. "Remote Sensing". Textbook, College of Agriculture, Baghdad University, Baghdad, Iraq (Scientific Evaluation, 12/2012).
3. 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).
4. 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).
5. 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).

SCIENTIFIC PUBLICATION

Scientific Publications: 61: Journals & Conferences Papers (53), Springer Book (1), Springer Book Chapters (7).

1. Huebner, L.; Al-Quraishi, A.M.F.; Branch, O.; Gaznayee, H.A.A 2022. Sahel Afforestation and Simulated Risks of Heatwaves and Flooding Versus Ecological Revegetation that Combines Planting and Succession. *Geosciences and Environment Protection (GEP)*, 10(02):94-108. DOI: <https://doi.org/10.4236/gep.2022.102007>
2. Huebner, L., Al-Quraishi, A.M.F., Branch, O., & Gaznayee, H.A.A. (2022). Sustainable Renaturation in Desertification Control: Expediting Natural Succession of Large-Scale Vegetation in Drylands. In: Walker, T., Wendt, S., Goubran, S., & Schwartz, T. (eds.) *Business and Policy Trajectories to Climate Change Adaptation*, Palgrave-Macmillan. DOI: https://doi.org/10.1007/978-3-030-86803-1_5
3. Huebner, L.; Al-Quraishi, A.M.F.; Branch, O.; Gaznayee, H.A.A. 2022. *New approaches: Use of assisted natural succession in revegetation of inhabited arid drylands as alternative to large-scale afforestation*. *SN Applied Sciences*, 4:80. DOI: <https://doi.org/10.1007/s42452-022-04951-y>
4. Gaznayee, H.A.A.; Al-Quraishi, A.M.F.; Al-Sulttani, A.H.A. 2021. *Drought Spatiotemporal Characteristics Based on a Vegetation Condition Index in Erbil, Kurdistan Region, Iraq*. *Iraqi J. of Science*. 62, 11: 4545-4556. DOI: [https://doi.org/10.24996/ij.s.2021.62.11\(SI\).34](https://doi.org/10.24996/ij.s.2021.62.11(SI).34)
5. Al-Quraishi, A.M.F.; Gaznayee, H.A.A.; Messina, J.P. 2021. *Drought severity trend analysis based on the Landsat time-series dataset of 1998-2017 in the Iraqi Kurdistan Region*. *IOP Conference Series Earth and Environmental Science* 779(1). DOI: <https://doi.org/10.1088/1755-1315/779/1/012083>

6. Khwarahm, N; Ararat, K; Qader, S; Al-Quraishi, A.M.F. 2021. *Modelling Habitat Suitability for the Breeding Egyptian Vulture (Neophron percnopterus) in the Kurdistan Region of Iraq*. Iranian Journal of Science and Technology. Transaction A, Science, DOI: <https://doi.org/10.1007/s40995-021-01150-z>
7. Al-Quraishi, A.M.F.; Gaznayee, H.A.A.; Crespi, M. 2021. *Drought trend analysis in a semi-arid area of Iraq based on Normalized Difference Vegetation Index, Normalized Difference Water Index, and Standardized Precipitation Index*. Journal of Arid Land, 13(4):413-430. DOI: <https://doi.org/10.1007/s40333-021-0062-9>
8. Alqasemi, A. S.; Ibrahim, M.; Al-Quraishi, A.M.F. 2021. *Detection and modeling of soil salinity variations in arid lands using remote sensing data*. Open Geosciences, 13(1): 443-453. DOI: <https://doi.org/10.1515/geo-2020-0244>
9. Alqasemi, A. S.; Hereher, M.E.; Kaplan, G.; Al-Quraishi, A.M.F.; Saibi, H. 2021. *Impact of COVID-19 lockdown upon the air quality and surface urban heat island intensity over the United Arab Emirates*. Science of The Total Environment, Volume 767, 144330. DOI: <https://doi.org/10.1016/j.scitotenv.2020.144330>.
10. Alqasemi, A; Hereher, M.; Al-Quraishi, A.M. F.; Saibi, H; Aldahan, A.; Abuelgasim, A. 2020. *Retrieval of monthly maximum and minimum air temperature using MODIS Aqua land surface temperature data over the United Arab Emirates (UAE)*. Geocarto International. DOI: <https://doi.org/10.1080/10106049.2020.1837261>
11. Al-Quraishi, A.M.F.; Razvanchy, H.A.; Gaznayee, H.A.A. 2020. *A Comparative Study for Performance of Five Landsat-based Vegetation Indices: Their Relations to Some Ecological and Terrain Variables*. J. of Geoinformatics and Environmental Science, 1(1): 20-37. DOI: <https://doi.org/10.38094/jgier119>
12. Khwarahm, N.R., Qader, S., Ararat, K, Al-Quraishi, A.M.F.. 2020. *Predicting and mapping land cover/land use changes in Erbil /Iraq using CA-Markov synergy model*. Earth Science Informatics. <https://doi.org/10.1007/s12145-020-00541-x>
13. Divya, Y., Gopinathan, P., Jayachandran, K., Al-Quraishi, A.M.F. 2020. *Color slices analysis of land use changes due to urbanization in a city environment of Miami Area, South Florida, USA*. Modeling Earth Systems and Environment. <https://doi.org/10.1007/s40808-020-00883-x>
14. Othman, A.; Al- Maamar, A.; Al-Manmi, D.; Obaid, A.; Liesenberg, V.; Hasan, S.; Al-Quraishi, A.M.F. 2020. *GIS-based modeling for selection of dam sites in the Kurdistan Region, Iraq*. ISPRS-Int. J. of Geo-Information. MDPI. 2020, 9 (4), 244. <https://doi.org/10.3390/ijgi9040244>
15. Gaznayee, H.A.A., and Al-Quraishi, A.M.F. 2020. *Identifying Drought Status in Duhok Governorate (Iraqi Kurdistan Region) from 1998 through 2012 using Landsat Time Series Dataset*. Journal of Applied Science and Technology Trends, 1(1), 17-23. <https://doi.org/10.38094/jastt1112>
16. Gopinathan, P.; Parthiban, S.; Magendran, T.; Al-Quraishi, A.M.F.; Singh, A.K.; Singh, P.K. 2020. *Mapping of ferric (Fe³⁺) and ferrous (Fe²⁺) iron oxides distribution using band ratio*

techniques with ASTER data and geochemistry of Kanjamalai and Godumalai, Tamil Nadu, South India. *Remote Sensing Applications: Society and Environment*. DOI: <https://doi.org/10.1016/j.rsase.2020.100306>

17. Othman, A.; Al- Maamar, A.; Al-Manmi, D.; Obaid, A.; Liesenberg, V.; Hasan, S.; Al-Quraishi, A.M.F. 2020. *GIS-based modeling for selection of dam sites in the Kurdistan Region, Iraq*. EGU General Assembly, Vienna, Austria, May 2020. DOI: <https://doi.org/10.5194/egusphere-egu2020-2057>
18. Kumar, M.; Al-Quraishi, A.M.F.; Mondal, I. 2019. *Glacier Changes Monitoring in Bhutan High Himalaya Using Satellite Remote Sensing*. The paper accepted for publication in the *Journal of Environmental Engineering Research (EER)*. DOI: <https://doi.org/10.4491/eer.2019.255>
19. Gaznayee, H.A.A.; Al-Quraishi, A.M.F. 2019. *Analysis of Agricultural Drought, Rainfall, and Crop Yield Relationships in Erbil Province, the Kurdistan Region of Iraq based on Landsat Time-Series MSAVI2*. *Journal of Advanced Research in Dynamical and Control Systems JARDCS*, Vol 11,12 Special Issue: 536-545, DOI: <https://doi.org/10.5373/JARDCS/V11SP12/20193249>
20. Meshram, S.; Al-Quraishi, A.M.F. 2019. *Application of SAW and TOPSIS in Prioritizing Watershed*. *Water Resources Management Journal, Springer*. DOI: <https://doi.org/10.1007/s11269-019-02470-x>
21. Gaznayee, H.A.A.; Al-Quraishi, A.M.F. 2019. *Analysis of Agricultural Drought's Severity and Impacts in Erbil Province, the Iraqi Kurdistan Region based on Time Series NDVI and TCI Indices for 1998 through 2017*. *Journal of Advanced Research in Dynamical and Control Systems JARDCS*, Vol 11,11: 287-297, DOI: <https://doi.org/10.5373/JARDCS/V11I11/20193198>
22. Al-Quraishi, A.M.F.; Gaznayee, H.A.A.; Crespi, M. 2020. *Drought Trend Analysis in Sulaimaniyah, the Iraqi Kurdistan Region using Remote Sensing and GIS for a Period of 1998-2017*. Accepted for oral presentation in the WRAA2020, Sultan Qaboos University, Muscat, 16-19 March 2020, Oman.
23. Al-Quraishi, A.M.F. and Negm, A. M. 2019. *Environmental Remote Sensing and GIS in Iraq*, Springer-Water, Springer, Cham, ISBN: 978-3-030- 21344-2, 2019.
24. Almamalachy, Y.S.; Al-Quraishi, A.M.F.; Moradkhani, H. 2019. *Agricultural Drought Monitoring Over Iraq Utilizing MODIS Products*. In: Al-Quraishi, A. M. F. & Negm, A. M. (eds). *Environmental Remote Sensing and GIS in Iraq*. Springer-Water, Springer, Cham. https://doi.org/10.1007/978-3-030-21344-2_11. 2019.
25. Al-Quraishi, A.M.F.; Qader, S.H.; Wu, W. 2019. *Drought Monitoring Using Spectral and Meteorological Based Indices Combination: A Case Study in Sulaimaniyah, Kurdistan Region of Iraq*, in: Al-Quraishi, A. M. F. & Negm, A. M. (eds). *Environmental Remote Sensing and GIS in Iraq*. Springer-Water, Springer, Cham. https://doi.org/10.1007/978-3-030-21344-2_15
26. Musatafa, B.M.; Al-Quraishi, A.M.F.; Gholizadeh, A.; Saberioon, M. 2019. *Proximal Soil Sensing for Soil Monitoring*. 2019. In: Ayad M. Fadhil Al-Quraishi and Abdelazim M Negm

- (Eds), Environmental Remote Sensing and GIS in Iraq, Springer-Water, Springer, Cham. https://doi.org/10.1007/978-3-030-21344-2_5
27. Wu, W.; Muhaimeed, A.; Al-Shafie, W.; Al-Quraishi, A.M.F. 2019. *Using Radar and Optical Data for Soil Salinity Modeling and Mapping in Central Iraq*. 2019. In: Al-Quraishi, A.M.F. and Negm, A.M. (Eds), Environmental Remote Sensing and GIS in Iraq, Springer-Water, Springer, Cham. https://doi.org/10.1007/978-3-030-21344-2_2
 28. Al-Quraishi, A.M.F.; Sadiq, H.A.; Messina, J.P. 2019. *Characterization and Modeling Surface Soil Physicochemical Properties Using Landsat Images: A Case Study in the Iraqi Kurdistan Region*. MRSS19 Conference. Munich Technical University & ISPRS, Munich, 18-20 Sep. 2019, Germany. DOI: <https://doi.org/10.5194/isprs-archives-XLII-2-W16-21-2019>
 29. Gaznayee, H.A.A.; Al-Quraishi, A.M.F.; Wu, W. 2019. *Spatiotemporal Characteristics of Drought in the Iraqi Kurdistan Region using Landsat Time-Series Images based on VHI and VCI Indices of 1998-2017*. Orally presented in the ICGITA2019 Conference, East China University of Technology, 11-13 Oct 2019, Nanchang, Jiangxi, China.
 30. Wu, W.; Muhaimeed, A.S.; Al-Shafie, W.M.; Al-Quraishi, A.M.F. 2019. *Using L-band Radar Data for Soil Salinity Mapping- A Case Study in Central Iraq*. Env. Res. Comm, IOP. DOI: <https://doi.org/10.1088/2515-7620/ab37f0>
 31. Attafi, R.; Bolorani, A.D.; Al-Quraishi, A.M.F.; Amiraslani, F. 2019. *Spatio-Temporal Assessment of Drought Impacts on the Agricultural Activities in Basrah Governorate, Iraq Using Remote Sensing Technique*. Journal of Advanced Research in Dynamical and Control Systems JARDCS, 11 (7 Special Issue): 174-184.
 32. Khudair, D.A.; Al-Quraishi, A.M.F.; Hasan, A.A. 2019. *Spatiotemporal Monitoring and Modeling of Urban Sprawl Using Remote Sensing and GIS: A Case Study Al-Karkh, Baghdad, Iraq*. J. of Adv. Res. in Dynamical and Control Systems, 11(6 Special issue): 1691-1698.
 33. Bolorani, A.D.; Masoud, S.; Papi, R.; Alavipanah, S.K.; Al-Quraishi, A.M.F. 2019. *Zoning Areas Susceptible to Land Subsidence in Tigris and Euphrates Basins*. Engineering and Technology Journal, University of Technology, 37(7 A), 265-272.
 34. Wu, W.; Zucca, C.; Muhaimeed, A.; Al-Shafie, W.M.; Al-Quraishi, A.M.F.; Nangia, V.; Zhu, M.; Liu, G. 2018. *Soil Salinity Prediction and Mapping by Machine Learning Regression in Central Mesopotamia, Iraq*. Land Degradation and Development, Wiley, Vol 29 (11): 4005-4014. DOI: <https://doi.org/10.1002/ldr.3148>
 35. Al-Quraishi, A.M.F.; Sadiq, H.A.; Messina, J.P. 2018. *Surface Soil Properties Predicting and Mapping using Landsat Images: A Case Study in the Iraqi Kurdistan Region*. The 38th Annual EARSeL Symposium Earth Observation Supporting Sustainability Research, 9 - 12 July 2018 Chania, Crete, Greece.
 36. Wu, W.; Zucca, C.; Muhaimeed, A.; Al-Shafie, W.M.; Al-Quraishi, A.M.F. 2018. *Application of ALOS L-band radar data in soil salinity modeling and mapping in Central Iraq*. The Int. Workshop on Climate Change and Soil Salinity Dynamics: Threats and Challenges. Manama, Bahrain, April 2018.

37. Al-Quraishi, A.M.F.; Qader, S.H.; Wu, W. 2018. *Spectral and Meteorological based Indices for Drought Monitoring: A Case Study in Sulaimaniyah, the Iraqi Kurdistan Region*. The United Nations/Pakistan/PSIPW 4th Int. Conference on Space Technology for Water Management, Islamabad, Pakistan 26 Feb - 2 March 2018.
38. Zhang, Z.; Kang, H.; Yao, Y.; Fadhil, A.M.; Zhang, Y.; Jia, K. 2017. *Spatial and decadal variations in satellite-based terrestrial evapotranspiration and drought over Inner Mongolia Autonomous Region of China during 1982-2009*. Journal of Earth System Science, Springer. <https://doi.org/10.1007/s1204>
39. Sulaiman, A.A.; Hamad, A.I.; Fadhil, A.M. 2013. *Soil salinity monitoring using remote sensing and GIS techniques*. The third scientific conference of the College of Agriculture, University of Kufa, Iraq, 24-25 April 2013.
40. Fadhil, A. M. 2013. *Sand Dunes Monitoring Using Remote Sensing and GIS Techniques for Some Sites in Iraq*. Proc. SPIE 8762, PIAGENG 2013: Intelligent Information, Control, and Communication Technology for Agricultural Engineering, 876206 (March 19, 2013); DOI: <https://doi.org/10.1117/12.2019735>
41. Yao, Y.; Qin, Q.; Fadhil, A.M.; Zhao, S.; Liu, S. 2011. *Evaluation of EDI Derived from the Exponential Evapotranspiration Model for Monitoring China's Surface Drought*. J. of Environmental Earth Sciences, Springer, Dordrecht, Netherlands. DOI: <https://doi.org/10.1007/s12665-011-0972-5>
42. Fadhil, A.M. 2011. *Drought Mapping Using Geo-information Technology for Some Sites in the Iraqi Kurdistan Region*. Int. J. of Digital Earth, Vol 4(3): 239-257. <https://doi.org/10.1080/17538947.2010.489971>
43. Fadhil, A.M. 2009. *Land Degradation Detection Using Geo-Information Technology for Some Sites in Iraq*. Journal of Al-Nahrain University-Science, JNUS, Baghdad, Iraq, Vol.12 (3): 94-108.
44. Fadhil, A.M. 2006. *Environmental Change Monitoring by Geoinformation Technology for Baghdad and its Neighboring Areas*. Proceeding of International Scientific Conference of Map Asia 2006: The 5th Asian Conference in GIS, GPS, Aerial Photography, and Remote Sensing. Bangkok, Thailand, 28 Aug. - 1 Sep., 2006. URL: <http://www.gisdevelopment.net/application/environment/conservation/ma06-103.htm>
45. Fadhil, A.M.; Hu, G.D.; Chen, J.G. 2004. *Land Degradation Detection, Mapping, and Monitoring in the Northwestern part of Hebei Province, China, Using RS and GIS Technologies*. Proceeding of Map Asia 2004: The 3rd Asian Conference in GIS, GPS, Aerial Photography and Remote Sensing. Beijing, China, August 26-29, 2004. URL: <http://www.gisdevelopment.net/application/environment/conservation/ma04153.htm>
46. Fadhil, A.M. 2004. *Assessing and Monitoring the Desertification in the Northern Part of Shaanxi Province, China, Using Geoinformation Technology*. Paper presented at the

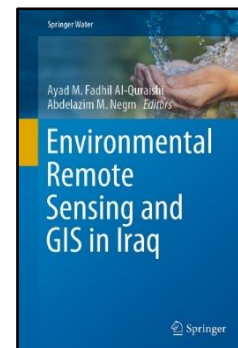
International CEOS Workshop on Rapid Response Information Systems, CD-ROM, May 5-7, 2004, Wuhan, China.

47. Fadhil, A.M. 2004. *Design a Dynamic Monitoring System of Land Degradation with Geoinformation Technology for Northern Part of Shaanxi Province, China*. Journal of Applied Sciences, 4(4):669-674.
48. Fadhil, A.M. 2004. *Assessment of Soil Erosion Risk with RUSLE and Geoinformation Technology in the Northern Part of Shaanxi Province, China*. J. China Univ. of Geosciences, vol (15) suppl. P: 31-39.
49. Fadhil, A.M. 2003. *Soil Erosion Risk Prediction with RS and GIS for the Northwestern Part of Hebei Province, China*. Pakistan Journal of Applied Sciences, 3(10): 659-669.
50. Fadhil, A.M. 2003. *Evaluation of Sand Dunes Stabilization in Baiji Area, Iraq*. Journal China Univ. of Geosciences, 14(1): 59-64.
51. Fadhil, A.M. 2002. *Sand Dunes Fixation in Baiji District, Iraq*. Journal of China Univ. of Geosciences, 13(1): 67-72.
52. Jassim, A.A.; Fadhil, A.M. 1997. *The Side Effect of Some Machines and Equipment on Some Soil Characteristics and Plant Growth*. Tech. Res. J., Ministry of Higher Education and Scientific Researches, Baghdad, Iraq.
53. Abed, F.M.; Fadhil, A.M. 1996. *Influence of Sodium Silicate on Some Soil Stability Parameters against Wind Erosion*. Tech. Res. J., Ministry of Higher Education and Scientific Researches, Baghdad, Iraq.
54. Fadhil, A.M. 1996. *Estimating the Potential Wind Erosion of Soil by Computer Programming*. Tech. Res. J., 30:119-129.
55. Fadhil, A.M.; Abed, F.M. 1995. *Computer Programming for Estimating the Water Erodibility of Soil Using Some its Proprieties*. Tech. Res. J., 27:115-125.
56. Fadhil, A.M.; Abed, F.M. 1993. *Computer Programming for Estimating the Wind Erodibility of Soil by Some its Proprieties*. Tech. Res. J., 20: 63-69.
57. Fadhil, A.M.; Abdullah, H.J. 1992. *Effect of Ecosystem on Wind Erosion as a Major Cause of Desertification*. Proceeding of 3rd Conf. of Technical Researches, Ministry of Higher Education and Scientific Researches, Baghdad, Iraq.
58. Fadhil, A.M.; Saleh, A. 1992. *Effect of Methods of Sand Dunes Stabilization on some Parameters of Wind Erosion in Baiji Area, Iraq*. Iraqi J. Agric. Sci., 23: 105-114.
59. Fadhil, A.M.; Abdullah, H.J. 1992. *Influence of Prevailing Natural Conditions on Devastation of Soil by Erosion*. Tech. Res. J., Iraq.
60. Fadhil, A.M.; Jassim, A.A. 1989. *The Effect of Tillage on Soil Water and Corn Emergence*. Tech. Res. J., Iraq.

61. Fadhil, A.M.; Saleh, A. 1988. *The Effect of Conditioners on Sand Dunes Fixation in Baiji Area, Iraq*. Proceeding of Geology of Desert Environment International Seminar. Baghdad, Iraq, pp: 78-94.

Book Editing (Published-Springer)

- Ayad M. Fadhil Al-Quraishi and Abdelazim M Negm. 2019. *Environmental Remote Sensing and GIS in Iraq*. Springer-Nature, Switzerland. URL: <https://www.springer.com/gp/book/9783030213435>



Book Chapters (Springer)

- **Proximal Soil Sensing for Soil Monitoring.** 2019. In: Ayad M. Fadhil Al-Quraishi and Abdelazim M Negm (Eds), *Environmental Remote Sensing and GIS in Iraq*, Springer. Springer-Nature, Switzerland. https://doi.org/10.1007/978-3-030-21344-2_5
- **Drought Monitoring using Spectral and Meteorological based Indices: A Case study in Sulaimaniyah, the Kurdistan Region of Iraq.** 2019. In: Ayad M. Fadhil Al-Quraishi and Abdelazim M Negm (Eds), *Environmental Remote Sensing and GIS in Iraq*, Springer-Nature, Switzerland. https://doi.org/10.1007/978-3-030-21344-2_15
- **Using Radar and Optical Data for Soil Salinity Modeling and Mapping in Central Iraq.** 2019. In: Ayad M. Fadhil Al-Quraishi and Abdelazim M Negm (Eds), *Environmental Remote Sensing and GIS in Iraq*, Springer-Nature, Switzerland. https://doi.org/10.1007/978-3-030-21344-2_2
- **Agricultural Drought Monitoring Over Iraq Utilizing MODIS Products.** 2020. In: Ayad M. Fadhil Al-Quraishi and Abdelazim M Negm (Eds), *Environmental Remote Sensing and GIS in Iraq*, Springer-Nature, Switzerland. https://doi.org/10.1007/978-3-030-21344-2_11

Books Editing (Ongoing-Springer)

1. Land Degradation in Asia (Will be published at the end of 2021).
2. Land Degradation in MENA Regions. (Will be published in the first half of 2022).

Papers Manuscripts (Under Review)

- Site selection and Storage System Design for RWH with artificial recharge based on hydro-geological and socio-economic consideration in qualitative and quantitative water-stressed areas of North 24 Parganas, India.
- Assessment of Spatio-temporal trends of satellite-based aerosol optical depth using Mann-Kendall Test and Sen's Slope Estimator model.
- A Geospatial Approach for Evaluation Drought Impacts on Vegetation Cover and Land Surface Temperature in the Kurdistan Region of Iraq.