

CURRICULUM VITAE



PERSONAL INFORMATION

Name	Salwa Farouk Khalil Elbeih
Affiliation	Professor, Acting Head of Engineering Applications and Water Division, Head of Engineering Applications Department, National Authority for Remote Sensing and Space Sciences (NARSS)
Place and Date of Birth	London, United Kingdom 31 st of July 1975
Nationality	Egyptian
Address	23 Joseph Browns Tito Street, El-Nozha EL-Gedida, Cairo, EGYPT, P.O. Box: 1564 Alf Maskan, Zip Code: 11769
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Language Skills	Arabic (Native language), English (Excellent), French (Fair)
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Scopus h- index	9

SCIENTIFIC DEGREES HELD

- Ph.D. Degree in Civil Engineering (2007). Structural Engineering Department-Faculty of Engineering-Ain Shams University. Thesis Title: “Impact of Groundwater Recharge on the Surrounding Environment”
- M.Sc. Degree in Civil Engineering (2002). Structural Engineering Department-Faculty of Engineering-Ain Shams University. Thesis Title: “Studying the Geoengineering Hazards Using Remote Sensing Techniques and its Application on El-Mokattam Area”
- B.Sc. Degree in Civil Engineering (May 1997) “Very Good” with Honor Structural Engineering Department-Faculty of Engineering-Ain Shams University. Graduation Project: Soil Mechanics and Foundation Engineering.

PROFESSION

- Acting Head of Engineering Applications and Water Division at NARSS from August 2022 till now
- Head of the Engineering Applications Department at NARSS from July 2021 till now
- Professor at the Engineering Applications Department at NARSS from March 2021 till now
- Associate Professor at the Engineering Applications Department at NARSS from May 2014 till March 2021
- Researcher at the Engineering Applications Department at NARSS from March 2008 to May 2014
- Assistant Researcher at the Engineering Applications and Water Division at NARSS from October 2002 till March 2008
- Research Assistant at the Engineering Applications and Water Division at NARSS from June 1998 till October 2002.
- Structural Engineer Designer at Enviro Civic Consultants from September 1997 to June 1998

COMPUTER SKILLS

- Very Good Skills using Microsoft Products (Windows 10, Word, Internet, Excel, Power Point,.....Etc)
- Very Good skills using remote sensing programs (e.g. ENVI), Geographical Information Systems (i.e. Arc GIS).
- Good skills using Mendeley Reference organizer

EXPERIENCE IN SCIENTIFIC PUBLISHING

Director of the Publishing Office of the Egyptian Journal of Remote Sensing and Space Sciences since April 2019

Associate editor in the Egyptian Journal of Remote Sensing and Space sciences (EJRS) since 2010

Reviewer in a number of International Peer Reviewed Journals

OTHER ADMINISTRATIVE ACTIVITIES

Member in Scientific Publishing Committee at NARSS since 2019 till now

Member in the Missions Committee at NARSS from 2011 to July 2022

Responsible for grant office in the Knowledge and Technology Transfer KTT Office at NARSS since June 2019

Registered as Expert (C) in General Organization for Physical Planning (GOPP) since Jan 2018

THESIS SUPERVISION

Ph.D. Thesis by Mohammed Abd El-Wahab Hagage. Evaluation of environmental impacts on groundwater and archaeological sites in northeast Nile Delta, Egypt: Remote Sensing and geochemistry applications. Department of Geology, Faculty of Science, Azhar University, (On-Going)

Ph.D. Thesis by Hala Abuel Hamd. Modeling and evaluation of landfills characterization using integrated remote sensing and geographic information system. Ain Shams University, Faculty of Environmental Studies and Research, Department of Environmental Engineering Sciences - Ain Shams University (On-Going)

Ph.D. Thesis by Wael Attia Hamed. Spatial Analysis of Geomorphological Hazards on the Archaeological Sites in Dakhla Depression: A study in Applied Geomorphology using Geoinformatics Techniques. Tanta University, Faculty of Arts (On-Going)

Ph.D. Thesis by Mahmoud Saad Mohamed. Hydrogeological and Environmental Studies of the Groundwater and Surface water, Beni Suef District, Egypt. Department of Geology, Faculty of Science, Beni Suef University, (Degree Awarded)

Ph.D. Thesis by Ebtehal Sayed Mohamed Ali. Sustainable Groundwater Management Using Solar Energy. Ain Shams University, Faculty of Engineering, Hydraulics Engineering and Irrigation Department (Degree Awarded)

M.Sc. Thesis by Mohammed Abd El-Wahab Hagage. Impacts of anthropogenic activities on the deterioration of groundwater and Archaeological sites in Akhmim area, Sohag Governorate, Egypt: Remote sensing and GIS applications. Cairo University, Faculty of Science, Department of Geology (Degree Awarded)

M.Sc. Thesis by El-Sayed Abdel Sadek. Extraction of water surface and water quality of Burullus and Manzala Lakes using Satellite data. Department of Water Resources and Hydraulics, Zagazig University, Faculty of Engineering (On-Going)

M.Sc. Thesis by Ahmed M. Bahy El - Deen. Environmental Impact Assessment for the Millionth City in Shark El-Tafriaa - Port Said using Remote Sensing and GIS Techniques. Ain Shams University Institute for Environmental Studies and Research (Degree Awarded)

M.Sc. Thesis by Nermeen Aziz Girgis. Urban Encroachment on Pyramids Plateau, An Applied Study Using GIS and Remote Sensing. Ain Shams University Institute for Environmental Studies and Research (Degree Awarded)

TRAINING COURSES

- Introduction to Geospatial Information Technology for Operational Planning and Decision Making in Disaster Risk Management. 20/9- 4/10/2021. Indian Ocean Rim Association (IORA) and the United Nations Satellite Centre (UNITAR-UNOSAT)
- 1st Scival User Group Meeting, ELSEVIER, 10 Nov. 2018
- "Engineering and Geoscience Solutions from Elsevier", 18 September 2019
- "Geofacets Case Studies and Engineering Solutions from Elsevier", NARSS, Cairo, 1 October 2019
- Introduction to python. 5-9 Nov. 2017 at NARSS
- Scientific thinking and Augmentation skills for problem solving, 28 Sept. 2017, Organized by DAAD Kairo Akademie at NARSS, Egypt
- Elsevier Info-Day Workshop on EKB Contents and SciVal. 26 April 2016
- 4th International ASD Users Meeting "in Middle East" training on "Analytical Spectrum Devices (ASD) Spectroradiometer" 19-20 April 2016, NARSS, Egypt
- NASA ARSET webinar Water Resource Management using NASA Earth Science Data (PM). 5 webinar sessions, 13 Oct. to 10 November 2015
- Radar Polarimetry, NARSS, Egypt 7- 11 Dec. 2014
- Geology of Egypt, NARSS, Egypt, 21 Sept. – 1 Oct. 2014
- Being an Editor for an International Journal 14 April 2014, ENSTINET, Cairo, Egypt
- Artificial Neural Networks Held at NARSS, 9-11 April 2013 within the activities of SUDSOE EU-FP7 Project, Cairo, Egypt

- Spectroradiometer applications (2-4 Sept. 2012) at NARSS
- A Publication Workshop (5 March 2012) Organized by Elsevier at Ministry of Scientific research
- Applications of Satellite Radar Technology for Development (29 Jan.-2 Feb. 2012) at NARSS by Prof. Vern Singhroy, Canada Remote Sensing
- Project Management Program PMP (5 May – 21 July 2011) Leadership and Management Development Center, Cairo
- A Training Workshop on: Formulation and Writing Project Proposals, 14-17 June 2009, National Research Center, Cairo, Egypt
- "RADARSAT SAR Applications" by MDA Geospatial Services International, 14-25 May 2007, NARSS
- Refresher course: "Innovative application of remote sensing and geoinformation sciences for female professionals in earth sciences", ITC, AARSE, NARSS, Cairo, 3-16 Nov. 2006
- A package of ArcGIS 9.0 training courses by Esri conducted at NARSS as follows:
- Mastering Microsoft Visual Basic, Introduction to programming ArcObjects with VBA, Advanced ArcObjects Component Development, Introduction to ArcIMS (10 April -12 May 2005)
- Working with ArcGIS Spatial Analyst, 3D Analyst and ArcGlobe, Geostatistical Analysis and Enterprise Geodatabase and ArcSDE (30 Jan.-17 March 2005)
- Introduction to ArcGIS I and II, Building Geodatabase I and II, Modeling geodatabase using Case Tools (3 Oct. 2004-2 Jan. 2005)
- "Database Implementation, Visual Documentation and Image Treatment" CULTNAT, 26 May-1 June 2004, Egypt within the Framework of the Egyptian Geological Museum Documentation Project, Smart village training center.
- "Online Database Searching and Document Delivery Services" ENSTINET 19-21 Oct. 2003, NARSS
- The seven modules of the International Computer Driving License Certificate (ICDL), Cairo University 24 July 2003
- Remote Sensing Application in Discovering Groundwater Location, Cairo, Egypt, 14-18 April 2001.
- Two days Course on Orbital Remote Sensing and its Application in Geology, Cairo, Egypt, 8-9 Jan. 2001
- A number of training courses under supervision of UNESO and UNDP in the Joint Project for the Capacity Building of the Egyptian Geological Survey and Mining Authority and the National Authority for Remote Sensing and Space Sciences.

Tertiary Stratigraphy (July 1999)

Ore Geology (10-12 July 1999)

Principles of Desert Geomorphology (4-6 May 1999)

Remote Sensing Applications (4-6 July 1999)

Structural Geology (18-20 July 1999 and 3-5 Oct. 1999)

Active Faults and Drainage Hazards (27-28 Sept. 1999)

Arcview and geological Digital Maps (12 July-20 Sept. 2000)

Image Processing

CONFERENCES, SEMINARS AND WORKSHOPS

- IP Strategies Workshop, 15 Dec. 2019 Organized by EKB and Derwent, Cairo
- The International Workshop for Enhancement of Egypt-Japan Joint Research Projects in Egypt: Archaeology, Heritage Sciences, Sciences, Community and Water Management, NARSS, Cairo, 23 December 2019

- 15th Tunisia-Japan Symposium on Science, Society and Technology (TJASSST) Sousse, Tunisia, Nov. 29 –Dec.2nd, 2019
- Geomapplica 2018 International Conference on Geomatics Applications, Syros- Greece 25-29 June 2018
- Horizon 2020 Info Day, 26-27 Feb. 2018, Cairo Sheraton Hotel
- 5th Egyptian–Japanese Joint Symposium on the New Valley Research Projects, NARSS, Cairo, 24th of December 2017
- International Symposium on Agricultural Meteorology Okayama University, Japan 14-17 March 2016
- Workshop on Direction of Changes in the Nile River and the Egyptian Villages Sophia University, Japan 11 March 2016
- 36th International Symposium on Remote Sensing of Environment, Berlin Germany, 11- 15 May 2015
- 20th conference on Mechanical Engineering: Development of Renewable and Water resources, Egyptian Society of Engineers, 14-15 March 2015
- International conference on Research and Innovation for Sustainable Soil Management ICRISSM 2014, Hurghada, 27-29 November 2014
- The 4th Egyptian-Japanese Joint Symposium on Remote Sensing and its applications: From Archaeology to Social Sciences, 11- 12 Sept. 2012, Cairo
- Regional ERA-WIDE Meeting, 9-12 July 2012, Brussels, Belgium
- An International Conference on Planet Earth: Earth Sciences and Development of Civilization in Major River Basins, Luxor, Egypt 11- 13 Oct 2010
- 10th International Conference on the Geology of the Arab World "GAW10", Cairo Univ., 10-12 April 2010
- ISNET / NARSS seminar on Bridging the Gap through Satellite Technology, 18 – 21 Oct. 2010, Cairo
- 6th International Conference on Environmental Hydrology and 1st Symposium on Coastal and Port Engineering, 28 -30 Sept. 2009, Cairo.
- 3rd Egyptian-Japanese Joint Symposium Remote Sensing Applications in Archaeology, 14-15 Feb. 2009, Supreme Council of Antiquities, Cairo
- 35th Annual International Conference, Association of Egyptian American Scholars (AEAS), 27-29 Dec. 2008, Supreme Council of Universities, Cairo
- Workshop on E-Learning in Higher Education, 35th Annual International Conference, Association of Egyptian American Scholars (AEAS), 27 Dec. 2008, Supreme Council of Universities, Cairo
- Workshop on Global Financial Crisis, 35th Annual International Conference, Association of Egyptian American Scholars (AEAS), 29 Dec. 2008, Supreme Council of Universities, Cairo
- International Workshop on Supercomputing Applications in Climate Sciences and Remote Sensing, 13-16 May 2008, Cairo
- 1st Regional Conference on Climatic Changes and Influence on Coastal Regions, 1-2 April, 2008, Portsaid, Egypt
- 12th International Colloquium on Structural and Geotechnical Engineering 10-12 Dec. 2007 Cairo–Egypt
- 6th AARSE International Conference on Earth Observation & Geoinformation Sciences in Support of Africa’s Development 30 October – 2 November, 2006, Cairo, Egypt
- 2nd Egyptian-Japanese Workshop on “Archeology from Space”, NARSS, Cairo, Egypt (22 Feb. 2006)
- FIG Workshop Week 2005 and 8th International conference on the Global Spatial Data infrastructure (GSDI-8), Cairo, EGYPT (16-21April 2005)
- International conference on future vision and challenges for urban development, Cairo, Egypt 20 – 22 December 2004
- A Seminar on “Towards Actions to Implement the Transport Master Plan for Greater Cairo” organized by JICA and Higher Committee for Greater Cairo Transportation Planning, 25/Dec.2003, Cairo
- 2nd Regional Conference on Geographic Information Systems (6-7 May 2003), Cairo
- First ICAMS Nile Delta Workshop on Information Technology for Coastal zone management of the Nile Delta. Stakeholder Priorities and Needs 7-10 April 2003, Ismailia.

- A Seminar on Remote Sensing and GIS Applications for Management of coastal Areas in Arab Countries, 20-23 Oct.2002, Cairo
- 3rd Workshop on Current Urban Transport Status entitled “A Challenge for Innovative Cairo Transport” organized by JICA and Higher Committee for Greater Cairo Transportation Planning, 24 Sept. 2002, Cairo
- 2nd Workshop on Current Urban Transport Status entitled “Transportation Master Plan and Feasibility Study of Urban Transport Projects in Greater Cairo Egypt” organized by JICA and Higher Committee for Greater Cairo Transportation Planning, 14 May 2002, Cairo
- Egyptian-Japanese Joint Seminar on Space Sciences and Technology, Cairo, Egypt, 3-5 March 2002.
- 9th International Colloquium on Structural and Geotechnical Engineering, Cairo, Egypt, 10-12 April 2001.
- 3rd Cairo Earthquake Engineering Symposium, Cairo, 18-20 Nov. 2000.
- Regional Workshop on “The Exclusive Economic Zone, Cairo, Egypt, 3-5 April 2000.
- 2nd International Conference on Earth Observation and Environmental Information, Cairo, Egypt, 11-14 Nov. 2000.
- International Conference on the Western Desert of Egypt: Geological and Development Potentials, Cairo, Egypt, 17-20 Jan. 2000.

RESEARCH STUDIES

➤ RESEARCH AND DEVELOPMENT PROJECTS

1. Production of an Atlas for Hydrogeological Maps of the North Western Desert, using Geographic Information Systems and Satellite Images (R&D project 2021-2024) Project PI
2. Studying the degradation of water bodies in Lake Burullus Northern Nile River delta, using Remote Sensing Techniques and Geographic Information Systems (R&D project 2020-2021) Project PI
3. Using Tertiary Treated Wastewater in Artificial Recharge of Groundwater Aquifers for Water Development using Remote Sensing and GIS Techniques at Wadi El-Farigh, West Delta (R&D project 2019-2020) Project PI.
4. Selection and Assessment of Civil and Coastal Development Sites in Matrouh Governorate: A Remote Sensing and GIS Approach (R&D project 2018-2019). Project PI.
5. Studying the Groundwater and the changes that occurred in the Aquifer in the Western Delta and its Indirect effect on Archeological Sites (R&D project 2017-2018). Research Team Member.
6. Water Balance Study for Ismailia Canal, Salhya- Ismailia region Using Remote Sensing and GIS Techniques (R&D project 2016-2017). Research Team Member.
7. Assessment and Evaluation of Land Resources of Suez Canal Region using Remote Sensing and GIS Techniques for Supporting Urban Development Projects. (R&D project 2014-2016). Project Co-PI.
8. Assessment of the Natural Resources and Risks Around Sohag – Safaga Highway Using Multispectral and Hyperspectral Data for Sustainable development (R&D project 2013-2014). Project PI.
9. Establishment of an information system for Land management and Environmental Monitoring of the Sinai Peninsula (R&D project 2011-2013) Phase I and II. Research Team Member.
10. Integration of Remote Sensing and GIS to Investigate the Relation Between Groundwater System, Cultivation and the Social Community in Dakhla Oasis (R&D project 2012-2013)
11. Establishing an Integrated Engineering System for Supporting the Development Projects Around Sohag-Safaga Highway-Eastern Desert (R and D 2009 - 2011) Project PI.
12. Using remote sensing and GIS techniques to monitor the geo-environmental changes around Hibis temple Kharga Oasis, Western Desert, Egypt (2009)
13. Using remote sensing and GIS techniques to monitor the geo-environmental changes around madenit Habo archeological sites, west Luxor, Egypt (2008). Research Team Member.

14. Geoarcheology and Holocene Landuse in El-Fayum Depression (2005). Research Team Member.
15. Evaluating the impacts of the excessive pumping of groundwater in Siwa Oasis, using the numerical flow model and remote sensing techniques (2003)
16. Using Radar Data in the exploration of Mines in the Northwestern desert. (2001). Research Team Member.
17. Water resources capabilities in North East Sinai, Egypt. (2001). Research Team Member.
18. Studying the dikes and its relation with the presence of groundwater Southeast to the Eastern desert. (2001). Research Team Member.
19. Management System of water resources of Northeast Nile Delta, Egypt (2002). Research Team Member.
20. Production of a hydrogeological map of Egypt in a digital format 1:2,000,000 (2002). Research Team Member.
21. Production of Base Maps for Data Base for the Area of Marsa Alam-Baranis on the Red Sea Coast, (2002). Research Team Member.
22. Studying the flash flood and sand dune hazard areas and methods of protection at the New Valley area. (1999)

➤ **SCIENTIFIC COOPERATION**

23. "Development of the Sustainable Groundwater use in the Water – Scarce Society"(Scientific cooperation between NARSS, Sophia University and Chiba University Japan and Assiut University) Project PI.
24. Egyptian-Japanese joint project: "Archaeology from Space"

➤ **CONTRACTUAL FUNDED PROJECTS**

25. Production of an Atlas for Hydrogeological Maps of the Southwestern Desert Egypt. Funded project by Academy of Scientific Research and Technology (ASRT), Egypt, (2015-2016) Project PI.
26. Integration of Geoscience and Archaeology to Support Site Management and the Preservation of Egyptian Heritage (NARSS / Schlumberger WesternGeco) 2012
27. Groundwater and Mineral Exploration in NW Sinai Egypt using Radarsat 2 and ASTER Remote Sensing and GIS (RDI Programme) (2010 -2012)
28. Lowering the Underground Water Table at El-Obour City, Egypt (Ain Shams University 2008)

EXTERNAL AND EU FUNDED PROJECTS

29. Characterization and Sustainable Use of Egyptian Degraded Soils (SUDSOE), 7th Framework Programme FP7-INCO-2011-6, ERA-WIDE, (2012-2015). Research Team Member.
30. Technology Management & Integrated Modeling in Natural Resources :A University-Enterprise Win-Win Partnership(TEMPUS–Project) 144627-TEMPUS-2008-EG-JPCR (2009-2012). Research Team Member.
31. Space archaeology and remote sensing applications for conservation and management of the pyramid tract from Abu-Roash to Meidum, SouthWest Cairo
32. Monitoring and modeling coastal lagoons: making management tools for aquatic resources in North Africa "MELMARINA" (Ended)
33. Capacity Building of The Egyptian Geological and Mining Authority and The National Authority for Remote Sensing and Space Sciences in Cooperation with UNDP and UNESCO EGY/97/001 (Phase II) (Ended)
34. Water Use Efficiency in natural vegetation and agricultural areas by remote sensing in the Mediterranean basin (WATERMED) funded by the European Commission Framework Programme (EC) (Ended)

JOURNAL PUBLICATIONS

- 1- El-Fakharany, Zeinab M., **Elbeih, Salwa F.** (2023). Delineate potential groundwater recharge sites in West Assiut, Egypt using remote sensing and GIS. Water and Energy International Volume 66r, Issue 5, August 2023, Pages 6-13

- 2- Hagage, M, Madani AA, Aboelyamin A. & **Elbeih S.F.** (2023). Urban sprawl analysis of Akhmim city (Egypt) and its risk to buried heritage sites: insights from geochemistry and geospatial analysis. *Heritage Science*, Published: 16 August 2023
- 3- Abd el-sadek E, **Elbeih S** and Negm A. (2022). Coastal and landuse changes of Burullus Lake, Egypt: A comparison using Landsat and Sentinel-2 satellite images. *The Egyptian Journal of Remote Sensing and Space Sciences*. Volume 25, Issue 3, December 2022, Pages 815-829
- 4- Mohammed M.S., **Elbeih S.F.**, Mohamed E.A., Abu Salem H., Ibrahim M., ElSayed E.E (2022). Spectral Indices Based Study to Evaluate and Model Surface Water Quality of Beni Suef Governorate, Egypt. *Egyptian Journal of Chemistry*. Article in Press
- 5- Mohammed M.S. Mohamed E.A., Abu Salem H., Ibrahim M. **Elbeih S.F.**, ElSayed E.E (2022). Geochemical Evolution of Groundwater in the Quaternary Aquifer in Beni Suef area, Egypt. *Egyptian Journal of Chemistry*. Volume 65, Issue 12, December 2022
- 6- Hagage, M., Madani, A.A. and **Elbeih, S.F.** (2022). Quaternary Groundwater Aquifer Suitability for Drinking in Akhmim, Upper Egypt: An Assessment Using Water Quality Index and GIS Techniques. *Arabian Journal of Geosciences*. Vol. 15:196
- 7- **Elbeih, S.** (2021). Evaluation of agricultural expansion areas in the Egyptian deserts: A review using remote sensing and GIS. *The Egyptian Journal of Remote Sensing and Space Sciences*. Volume 24, Issue 3, Part 2, December 2021, Pages 889-906
- 8- **Elbeih, S.**, Madani, A. and Hagage, M. (2021). Groundwater deterioration in Akhmim District, Upper Egypt: A Remote Sensing and GIS investigation approach. *The Egyptian Journal of Remote Sensing and Space Sciences*. Volume 24, Issue 3, Part 2, December 2021, Pages 919-932.
- 9- Iwasaki, E., **Elbeih, S.** Shalaby, A., Khedr, H. and Zaghoul, E. (2020). Wells and land use changes in Dakhla Oasis (Egypt) using geospatial analysis: A case study of Rashda village. *Euro-Mediterranean Journal for Environmental Integration*. 5, Article number: 61
- 10- Zaghoul, E.A., Abdeen, M.E., **Elbeih, S.F.** and Soliman, M.A. (2020). Water Logging Problems in Egypt's Deserts: Case Study Abu Mena Archaeological Site Using Geospatial Techniques. *The Egyptian Journal of Remote Sensing and Space Sciences*. Volume 23, Issue 3, December 2020, Pages 387-399
- 11- Effat, H.A., **Elbeih, S.F.** (2020). A geospatial model for allocating potential urban–industrial zones in a desert: Case study Matrouh, Egypt. *Model. Earth Syst. Environ*, 6, pp.2033–2046
- 12- Sayed, E., Riad P., **Elbeih, S.**, Hassan A. A. and Hagra M. (2020). Sustainable Groundwater Management in Arid Regions Considering Climate Change Impacts in Moghra Region, EGYPT. *Groundwater for Sustainable Development*, 11 (2020) 100385
- 13- **Elbeih S.F.**, Elkafrawy S. B., and Attia W. (2019). Multi-Criteria Site Selection and Assessment of Ports in the Northwestern Coast of Egypt: A Remote Sensing and GIS Approach. *International Journal of Environmental Science and Development*. Volume 10 (10) (Oct. 2019), pp. 310-320
- 14- El-Zeiny A. M. and **S. F. Elbeih** (2019). GIS-Based Evaluation of Groundwater Quality and Suitability in Dakhla Oases, Egypt. *Earth Systems and Environment*. (2019) 3:507–523
- 15- Sayed, E., Riad P., **Elbeih, S.**, Hagra M. and Hassan A. A. (2019). Multi criteria analysis for groundwater management using solar energy in Moghra Oasis, Egypt. *The Egyptian Journal of Remote Sensing and Space Sciences*. Volume 22, Issue 3, December 2019, Pages 227-235
- 16- **S. F. Elbeih** and A. M. El-Zeiny (2018). Qualitative assessment of groundwater quality based on land use spectral retrieved indices: Case study Sohag Governorate, Egypt. *Remote Sensing Applications: Society and Environment*. Volume 10, April 2018, Pages 82-92
- 17- **Salwa F. Elbeih**, Nehal M.A. Soliman (2015). An approach to locate and map swelling soils around Sohag – Safaga road, Eastern Desert, Egypt using remote sensing techniques for urban development. *The Egyptian Journal of Remote Sensing and Space Sciences* (2015) 18, S31–S41

- 18- **Salwa Farouk Elbeih** (2015). An overview of integrated remote sensing and GIS for groundwater mapping in Egypt. *Ain Shams Engineering Journal*, 6, pp. 1–15.
- 19- Kato H., **Elbeih S.**, Iwasaki E., Sefelnasr A., Shalaby A. and Zaghoul E. (2014). The Relationship between Groundwater, Landuse, and Demography in Dakhla Oasis, Egypt. *Journal of Asian Network for GIS-based Historical Studies Vol.2* (Dec. 2014) 3-10
- 20- **Salwa F. Elbeih**, Adel A. Shalaby and Ahmed M. Bahy El-Deen (2013). Water Management Problems Associated with Urban Sprawl in Gharbia Governorate, Egypt Using Remote Sensing and GIS. *International Journal of Advanced Remote Sensing and GIS*, Volume 2, Issue 1, pp. 243-259
- 21- Zaghoul, E.A., S.M. Hassan, A.M. Bahy El-Dein and **S. F. Elbeih**. (2013). Detection of Ancient Irrigation Canals in Deir El-Hagar Playa, Dakhla Oasis, Egypt, Using Egyptsat-1 Data. *Egypt. J. Remote Sensing Space Sci.* (2013) 16, 153–161
- 22- Kato, H., Kimura, R., **Elbeih, S.F.**, Iwasaki, E., and E.A. Zaghoul (2012). Land use change and crop rotation analysis of a government well district in Rashda village – Dakhla Oasis, Egypt based on satellite data. *Egypt. J. Remote Sensing Space Sci.* Vol 15 (2), pp. 185-195.
- 23- **Salwa F. Elbeih**, Abdel Aziz B. Belal and El - Sayed A. Zaghoul (2011). Hazards mitigation and natural resources evaluation around Sohag - Safaga highway, Eastern Desert, Egypt. *Egypt. J. Remote Sensing Space Sci.* Vol. 14 No. 1: 15-28
- 24- Lamyaa Gamal El Deen Taha and **Salwa Farouk Elbeih** (2010). Investigation of fusion of SAR and Landsat data for shoreline super resolution mapping: the Northeastern Mediterranean Sea coast in Egypt. *Applied Geomatics* (2010) 2:177–186
- 25- **Elbeih, S. F.**, Fayed A. M., Zaghoul E.A., Fekri A.M. and Mikhael N. N. (2009). Hydrogeophysical Investigations on Madinet Habu Temple, Western Bank of Luxor, Egypt. *Ain Shams Journal of Civil Engineering*, Vol. 1 (March 2009), pp. 345-353
- 26- Eid, M.M., Abdel Rahman, M.T., Zaghoul, E.A. and **Elbeih, S.F.** (2006). Integrated Remote Sensing and GIS for Proposing Groundwater Recharge Locations: Case Study at West El-Nubariya Canal, Egypt. *Egypt. J. Remote Sensing & Space Sci.*, Vol.9, pp. 113-134
- 27- M.M.Eid, E.A.Fattah, E.A.Zaghoul, and **Salwa F. Elbeih** (2003). Measurement of Surface Lateral Ground Movements in the Vicinity of the Southwestern Scarp, El-Mokattam Plateau, Cairo, Egypt. *Journal of the Egyptian Geotechnical Society*, Vol.14 Pt.1 PP.1-22

CONFERENCE PUBLICATIONS

- 1- **Elbeih Salwa F.**, Hagage Mohammed, Attia Wael, Abdelsadek El Sayed (2023). Using Treated Wastewater in Groundwater Recharge at Wadi El Farigh Area, Egypt: GIS and Remote Sensing Applications. The 1st International Conference of Remote Sensing and Space Sciences Applications 8-11 December, HURGHADA, EGYPT
- 2- El Sayed Abdelsadek, **Salwa Elbeih**, Abdelazim Negm (2023). Mapping Water Quality and Bathymetry Determination of Burullus Lake using Remote Sensing and GIS. The 1st International Conference of Remote Sensing and Space Sciences Applications 8-11 December, HURGHADA, EGYPT
- 3- Erina IWASAKI, **Salwa Elbeih**, Adel SHALABY, and El-Sayed Zaghoul (2019). Replacement Wells and Land Use Changes in Dakhla Oasis (Egypt) Using Geo-Spatial Analysis: Case Study of Rashda Village. 15th Tunisia-Japan Symposium on Science, Society and Technology (TJASSST) Sousse, Tunisia, Nov. 29 –Dec.2nd, 2019
- 4- Ebtehal Sayed, Peter Riad, **Salwa Elbeih**, Mona Hagra and Ahmed A. Hassan (2019). Groundwater Management in Moghra region considering climate change impact. Regional Expert Workshop on Water Resources and Climate Change: Impacts, Mitigation and Adaptation, Amman-Jordan 03-07 November 2019
- 5- **Elbeih Salwa**, El Kafrawy Sameh, Attia Wael (2018). Site Selection, Assessment of Ports, Harbors and Marinas, North Western Coast of Egypt: A Remote Sensing and GIS Approach. *Geomapplica International Conference*, Syros & Mykonos Islands 25-29 June 2018.
- 6- **Salwa F. Elbeih** and El-Sayed A. Zaghoul (2017). Least Cost Path and Accessibility Map for the Ancient Egyptian Pilgrimage Track South Sinai, Egypt using Remote Sensing and GIS. *Virtual Heritage Cairo's 1st International Conference* 20-21st Feb. 2017, Cairo, Egypt

- 7- Belal A.A., Moghanm F.S, S.F. Elbeih (2013). Evaluation of Some Agriculture Expansion Areas in the Eastern Desert, Egypt using GIS. International Journal of Arts & Sciences (IJAS) Conference held at Hotel Ibis München City Nord, Ungererstrasse 139, 80805 Munich, Germany (23-26 June 2013).
- 8- Elsayed Zaghoul and **Salwa Elbeih** (2013). Using remote sensing and GIS techniques to monitor the geoenvironmental changes at Abydous area, Sohag, Egypt. GEOMED 2013, 3rd international geography symposium, Antalya, Turkey, 10 – 12 June 2013
- 9- **Elbeih, S.F.**, Iwasaki, E. and H. Kato (2012).Irrigation and Land Use in Rashda Village: Case Study of Well No.3 District, Based on Satellite Data. The 4th Egyptian Japanese Joint Symposium on Remote Sensing and Its Application; From Archaeology to Social Sciences 11 – 12 September 2012, Cairo, Egypt
- 10- El-Sayed A. Zaghoul, **Salwa F. Elbeih** and Osman A. Hassan (2010).Assessment and Management of Water Resources in El-Qaa Plain, Southwest Sinai Peninsula, Egypt.10th International Conference on the Geology of the Arab World "GAW10". 10-12 April Fac. of Science, Cairo Univ
- 11- **S. F. Elbeih**, Zaghoul, E.A.,A.M. Bahy El-Deen and Mikhael N.N. (2010). "Evaluating and Mitigating the Natural and Man-Made Hazards at Madinet Habo West Luxor, EGYPT". Planet Earth: Earth Sciences and Development of Civilization in Major River Basins, Luxor, Egypt 11- 13 Oct 2010
- 12- Salim, Mariam G. and **Elbeih, Salwa F.** (2009).Environmental assessment of filling the Qattara Depression as a national project in Egypt. Conveying the water through a major canal from the North of Assiut. 6th International Conference on Environmental Hydrology and 1st Symposium on Coastal and Port Engineering, 28 -30 Sept. 2009 Cairo
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- 2- **Elbeih, S.F.**, Hagage, M., Attia, W., Abd el-sadek, E. (2023). Using Treated Wastewater in Groundwater Recharge at Wadi El Farigh Area, Egypt: GIS and Remote Sensing Applications. In: Gad, A.A., Elfiky, D., Negm, A., Elbeih, S. (eds) Applications of Remote Sensing and GIS Based on an Innovative Vision. ICRSSA 2022. Springer Proceedings in Earth and Environmental Sciences. Springer, Cham. https://doi.org/10.1007/978-3-031-40447-4_8
- 3- Erina IWASAKI, Abdelazim NEGM, **Salwa ELBEIH (2021)**. Sustainable Water Solutions in the Western Desert, Egypt, Dakhla Oasis, Earth and Environmental Sciences Library Springer
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- 5- **Elbeih S.F.**, El-Zeiny A.M., Negm A.M., Kostianoy A. (2020) Update, Conclusions, and Recommendations of “Environmental Remote Sensing in Egypt”. In: Elbeih S., Negm A., Kostianoy A. (eds) Environmental Remote Sensing in Egypt. Springer Geophysics. Springer, Cham
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REVIEWER IN THE FOLLOWING JOURNALS

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- Ain Shams Engineering Journal
- Applied Water Science
- Geoscience Frontiers
- Journal of Spatial Science
- Journal of African Earth Sciences
- Journal of Earth System Science
- Sky Journal of Science and Environmental Management
- The Egyptian Journal of Remote Sensing and Space Sciences

SPECIAL ISSUES PREPARATION

- EJRS Special Issue: Microwave Remote Sensing in honor of Professor Adel Yehia
- EJRS Special Issue: Water Scarcity and harvesting
- EJRS Special Issue: Research and Innovation for sustainable soil management
- EJRS Special Issue: The Role of Geoinformatics to support Sustainable Development Goals: Case Studies of African & Arabian Countries

AWARDS

- 1- A prize from the ministry of water resources and irrigation (2010) for the paper entitled Prediction of the Responses to Groundwater Recharge: Case Study at West El-Nubariya Canal, EGYPT
- 2- Best paper in the 6th International Conference on Environmental Hydrology and 1st Symposium on Coastal and Port Engineering September (28 - 30) , 2009 : Cairo, EGYPT. Paper entitled: Environmental assessment of filling the Qattara Depression as a national project in Egypt 1. Conveying the water through a major canal from the north of Assiut
- 3- 3- An appreciation certificate from NARSS on the World Women's day for effort, excellence and dedication during 2021