

# CURRICULUM VITAE

## PERSONAL INFORMATION

**Name:** Salwa Farouk Khalil Elbeih

**Present Position:** Associate Professor, Engineering Applications and Water Division, National Authority for Remote Sensing and Space Sciences (NARSS)

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**Language Skills:** Arabic (Native language), English (Excellent)

## SCIENTIFIC DEGREES HELD

- Ph.D. Degree in Civil Engineering (2007) Structural Engineering Department-Faculty of Engineering-Ain Shams University
- M.Sc. Degree in Civil Engineering (2002) Structural Engineering Department-Faculty of Engineering-Ain Shams University
- B.Sc. Degree in Civil Engineering with “Very Good” with Honor (1997), Structural Engineering Department-Faculty of Engineering-Ain Shams University

## PROFESSION

- Acting Head of the Engineering Applications Department at NARSS since May 2014
- Associate Professor at the Engineering Applications Department at NARSS since May 2014
- Researcher at the Engineering Applications Department at NARSS since March 2008
- 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.

## EXPERIENCE IN SCIENTIFIC PUBLISHING

Associate editor in the Egyptian Journal of Remote Sensing and Space sciences (EJRS) from 2010 to 2018

Director of the EJRS Publishing Office from April 2019

Training Workshop "International Scientific Publishing" 5 to 6 Dec. 2012 at National Research Center.

Training Workshop "International Scientific Publishing" 11 to 12 Nov. 2012 at National Authority for Remote Sensing and Space Sciences.

### **OTHER ADMINISTRATIVE ACTIVITIES**

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

Member in the Missions Committee at NARSS since 2011

Member in the Library Committee at NARSS since 2008

### **THESIS**

- Ph.D. thesis (2007): "Impact of Groundwater Recharge on the Surrounding Environment"
- M.Sc. thesis (2002): "Studying the Geoengineering Hazards Using Remote Sensing Techniques and its Application on El-Mokattam Area"

### **• THESIS SUPERVISION**

- 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 (On-Going)
- Ph.D. Thesis by Mahmoud Saad Mohamed. Hydrogeological and Environmental Studies of the Groundwater and Surface water, Beni Suf District, Egypt. Beni Suf University, faculty of Science (On-Going).
- Ph.D. Thesis by Ebtehal Sayed Mohamed Ali. Sustainable Groundwater Management Using Solar Energy. Ain Shams 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 (Finished)
- 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 (Finished)

### **ATTENDED TRAINING COURSES**

- Introduction to python. 5-9/11/2017 at NARSS

- Elsevier Info-Day Workshop on EKB Contents and SciVal. 26 April 2016
- NASA ARSET webinar Water Resource Management using NASA Earth Science Data (PM). 5 webinar sessions, 13 Oct. to 10 November 2015
- 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 (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

## **ATTENDED CONFERENCES, SEMINARS AND WORKSHOPS**

- Geomapplica 2018 International Conference on Geomatics Applications, Syros-Greece 25-29 June 2018
- Horizon 2020 Info Day, 26-27/2/2018, Cairo Sheraton
- 5<sup>th</sup> Egyptian – Japanese Symposium at NARSS, 24/12/2017
- 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, 27th-29th of November 2014
- The 39th Annual International Conference, Association of Egyptian American Scholars (AEAS), 25-27 Dec. 2012, National Research Center, Cairo, 14-15 March 2015
- The 4<sup>th</sup> 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, 35<sup>th</sup> 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
- First 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
- 2<sup>nd</sup> 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 (16-21 April 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
- 3<sup>rd</sup> 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
- 2<sup>nd</sup> 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.
- 3<sup>rd</sup> 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.

## **PARTICIPATION IN RESEARCH STUDIES**

- 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.
- 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.
- "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.
- 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)
- *Water Balance Study for Ismailia Canal, Salhya- Ismailia region* Using Remote Sensing and GIS Techniques (R&D project 2016-2017)
- Production of an Atlas for Hydrogeological Maps of the Southwestern Desert Egypt. Funded project from Academy of Scientific Research and Technology (ASRT), Egypt, (2015-2016) Project PI.
- 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)
- Assessment of the Natural Resources and Risks Around Sohag – Safaga Highway Using Multispectral and Hyperspectral Data for Sustainable development (R&D project 2013-2014)
- Establishment of an information system for Land management and Environmental Monitoring of the Sinai Peninsula (R&D project 2011-2013) Phase I and II
- 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)
- Integration of Geoscience and Archaeology to Support Site Management and the Preservation of Egyptian Heritage (NARSS / Schlumberger WesternGeco) 2012
- Characterization and Sustainable Use of Egyptian Degraded Soils (SUDSOE), 7th Framework Programme FP7-INCO-2011-6, ERA-WIDE, (2012-2014)
- Technology Management & Integrated Modeling in Natural Resources: A University-Enterprise Win-Win Partnership (TEMPUS – Project) 144627-TEMPUS-2008-EG-JPCR (2009-2012)
- Groundwater and Mineral Exploration in NW Sinai Egypt using Radarsat 2 and ASTER Remote Sensing and GIS (RDI Programme) (2010 -2012)

- Establishing an Integrated Engineering System for Supporting the Development Projects Around Sohag-Safaga Highway-Eastern Desert (R and D 2009 - 2011)
- Using remote sensing and GIS techniques to monitor the geo-environmental changes around Hibis temple Kharga Oasis, Western Desert, Egypt (2009)
- Using remote sensing and GIS techniques to monitor the geo-environmental changes around madenit Habo archeological sites, west Luxor, Egypt (2008)
- Lowering the Underground Water Table at El-Obour City, Egypt (Ain Shams University 2008)
- Space archaeology and remote sensing applications for conservation and management of the pyramid tract from Abu-Roash to Meidum, SouthWest Cairo (Ended)
- Egyptian-Japanese joint project: "Archeology from Space"
- Monitoring and modeling coastal lagoons: making management tools for aquatic resources in North Africa "MELMARINA" (Ended)
- Geoarcheology and Holocene Landuse in El-Fayum Depression (2005)
- 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)
- 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)
- Evaluating the impacts of the excessive pumping of groundwater in Siwa Oasis, using the numerical flow model and remote sensing techniques (2003)
- Management System of water resources of Northeast Nile Delta, Egypt (2002)
- Production of a hydrogeological map of Egypt in a digital format 1:2,000,000 (2002)
- Production of Base Maps for Data Base for the Area of Marsa Alam-Baranis on the Red SeaCoast, (2002).
- Using Radar Data in the exploration of Mines in the Northwestern desert. (2001)
- Water resources capabilities in North East Sinai, Egypt. (2001)
- Studying the dikes and its relation with the presence of groundwater Southeast to the Eastern desert. (2001)
- Studying the flash flood and sand dune hazard areas and methods of protection at the New Valley area. (1999)

## PUBLICATIONS

- 1- **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
- 2- 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*. Published online 22 August 2019.
- 3- Sayed, E., Riad P., **Elbeih, S.**, Hagraas 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*. Available online 17 April 2019.
- 4- **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

- 5- **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
- 6- **Salwa F. Elbeih** (2016). Mapping of Groundwater in Egypt Using RS/GIS: Case Studies, Areas Surrounding Nile Valley and Its Delta. In *The Nile Delta*. Volume 55 of the series *The Handbook of Environmental Chemistry* pp 63-88. Springer International Publishing
- 7- **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
- 8- **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.
- 9- 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
- 10- Elsayed Zaghoul and **Salwa Elbeih** (2014). Using Remote Sensing and GIS Techniques to Monitor the Geoenvironmental Changes at Abydos Area, Sohag, Egypt. Chapter Three In: *Tourism, Environment and Ecology in the Mediterranean Region*. Cambridge Scholar Publishing. Edited by Recep Efe and Münir Öztürk
- 11- **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
- 12- 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).
- 13- 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.* (Accepted and in press)
- 14- Elsayed Zaghoul and **Salwa Elbeih** (2013). Using remote sensing and GIS techniques to monitor the geoenvironmental changes at Abydos area, Sohag, Egypt. *GEOMED 2013, 3<sup>rd</sup> international geography symposium*, Antalya, Turkey, 10 – 12 June 2013
- 15- **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 4<sup>th</sup> Egyptian Japanese Joint Symposium on Remote Sensing and Its Application; From Archaeology to Social Sciences* 11 – 12 September 2012, Cairo, Egypt
- 16- 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.
- 17- **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



- 18- 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
- 19- 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.
- 20- **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
- 21- 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. 6<sup>th</sup> International Conference on Environmental Hydrology and 1st Symposium on Coastal and Port Engineering, 28 -30 Sept. 2009 Cairo
- 22- **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
- 23- Eid, M.M., Abdelrahman, M.T., Zaghoul, E.A. and **Elbeih, S.F.** (2007): "Prediction of the Responses to Groundwater Recharge: Case Study at West El-Nubariya Canal, EGYPT". 12th International Colloquium on Structural and Geotechnical Engineering, 10-12 Dec. 2007 Cairo–Egypt
- 24- 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
- 25- Qaddah, A.A. and **Elbeih, S.F.** (2005): "GIS as A Tool For Promoting A Village". Middle East & Africa Conference for ESRI Users MEAUC, 6-8 Dec. 2005, Sharm El-Sheikh Egypt
- 26- Zaghoul, E.A., H.H. Elewa and **S. Elbeih** (2004): "Urbanization Impact on the Environmental Conditions of the Coastal Zone between El-Burullus and Port-Said, Egypt" GORS 14<sup>th</sup> International Symposium on Remote Sensing and Development. 27-30 Sept., 2004, Syria
- 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

## 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 6<sup>th</sup> International Conference on Environmental Hydrology and 1<sup>st</sup> 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