

Curriculum Vitae



Name: Mohammed El-Saied El-Telbany

Title: Associate Professor

Department: Information Technology

E-mail: mohammed.elsaid@su.edu.eg

A) Academic Qualifications:

- Bachelor's Degree in **Computer Engineering and Sciences** University of **Minofia** Year: **1991**
- Master's Degree in **Computer Engineering** University: **Cairo University** Year: **1997**
- PhD. in **Computer Engineering** University: **Cairo University** Year: **2003**

• Other Qualifications:

B) Academic Promotions:

hyprlink for Total c.v

- Demonstrator, **Electronics Research Institute** Date: **1993**
- Assistant Lecturer, **Electronics Research Institute** Date: **1998**
- Assistant Professor, **Electronics Research Institute** Date: **2003**
- Associate Professor, **Electronics Research Institute** Date: **2008**

C) Scientific Merit:

- Google Scholar: <https://scholar.google.com/citations?user=kwzH-5cAAAAJ&hl=en>
- Scopes ID; 8298433600
- Citations: **892** h-index: **13** i10-index: **15**
- Orcid -N: **0000-0003-0065-7398**

D) Academic Administrative Experiences:

1. Vice Dean for Education and Student Affairs 2023-Currently
2. Head of the Department of Information Technology 2019-2023

E) Scientific Activities

1: Membership of Professional Organizations and Scientific Societies

- Member of the Egyptian Engineering Syndicate (ESE) since 1991.

2: Training Courses/workshops:

- “*E-Learning Using Moodle*”, training course for faculty staff, Abha, KSA. April, 2007.
- “*Development the Research Skills of Academic Staff*”, training course for faculty staff, Taif, KSA. April, 2009.
- “*Study Programs Design and Evaluation*”, training course for faculty staff, Taif, KSA. April, 2009.

3: Conferences, Seminars and Workshops:

- The 1st IEEE International Conference on Electronics, Circuits and Systems, Cairo Egypt, December 1994.
- The 4th IEEE International Conference on Electronics, Circuits and Systems, Cairo Egypt, December 1997.
- The International Conference of Industrial Engineering Applications of AI and Expert Systems (IEA/AIE 99) Cairo, Egypt, May 31th –June 4th, 1999.
- The International Conference on Industrial Electronics, Technology and Automation (IETA2001) Cairo Egypt, 19-21 December 2001.
- The Second International workshop on Advanced Computation for Engineering Applications (ICEA’ 2003), Cairo Egypt 2003, 21-23 December 2003.
- The 46th IEE International Midwest Symposium on Circuits and Systems, Cairo, Egypt, 27-30 December 2003.
- The 1stP, Jordan International Conference on Computer Science and Engineering, Al-Salt, Jordan, 4-7 October, 2004.
- The 2nd International Computer Engineering Conference ICENCO2006, Cairo, Egypt. 26-28 Dec., 2006.
- The 5th International Workshop on Advanced Computation for Engineering Applications (ACEA2010), Taif, Saudi Arabia, 9-11 March, 2010.
- In 2nd International Conference on New Paradigms In Electronics& Information Technology (PEIT’015), Luxer, Egypt 2013.
- The 2nd International Conference on Engineering and Technology (ICET 2014), Cairo, Egypt.
- The 10th International Computer Engineering Conference: New Technologies for Information Society, Cairo, ICENCO, 2014, Cairo, Egypt.
- In 3rd International Conference on New Paradigms In Electronics & Information Technology (PEIT’015), Luxer, Egypt 2015
- The Renewable Energy and Green Technology International Conference, 2014, Indonesia.
- In 4th International Conference on Advanced Control Circuits and Systems (ACCS’015), Luxur, Egypt, 2015.
- In 1st International Conference on Advanced Intelligent Systems and Informatics (AISi2015), 2015, Cairo, Egypt.
- In 2nd International Conference on Advanced Intelligent Systems and Informatics (AISi2016), 2016. Cairo, Egypt.
- In 1st International Conference on Recent Advances in Engineering Mathematics and Physics (RAEMP2019), 2019, Cairo, Egypt.

4: Teaching Scopes:

Below I outline courses and topics I feel best qualified and most excited to teach.

- Introductory Computer Science.
- Artificial Intelligence and Machine learning
- Data Mining.
- Digital Logic
- Computer Architecture and Organization,
- Software Engineering,
- Embedded Systems,
- Robotics,
- Pattern Recognition,
- Evolutionary Algorithms,
- Computer Vision and Image Processing,
- Cloud Computing,
- Data Communications,
- Big Data Analytics,
- Information Storage & Management.

5: Scientific supervision number:

PHD Thesis

1. “*Adaptive Swarm Intelligence for Data Clustering*”, Samah Rafat, Ain Shamis University, May, 2010.
2. “*Improving the Efficiency of Photovoltaic System by Tracking the MPP using Intelligent Controller(s)*”, Ayman Youssef Mostafa Mahgoub, Ain Shamis University, May, 2019.

Master Thesis

1. “*Training Neural Networks by using Particle Swarm Optimization Algorithm*”, Hanan M. Gamal Konsowa, Helwan University Faculty of Engineering, July, 2005
2. “*Evolution Algorithms for Urban Planning*”, Waseem Mohsen Al-Hasan, Cairo University, Faculty of Engineering, March, 2004.
3. “*Adaptive Web Personalization*”, Osama Hashim Mobarik, Cairo University, Statistical Researches and Studies Institute.
4. “*Reinforcement Learning Algorithms for Adaptive Pattern Recognition*”, Sami Mohammed Atia, Cairo University, Statistical Researches and Studies Institute.
5. “*Drug Design Using Natural Inspired Intelligent Algorithms*”, Enjy Ibrahim Nasr, Ain Shamis University, May, 2015.
6. “*Using Data Mining Techniques for Classification the Diseases in Egyptian Crops*”, Mahmoud Warda, Alexandria-University Faculty of Science, May 2016.
7. “*Electroencephalogram (EEG) based Biometric Recognition System Using Intelligence Techniques*”, Sara Hamed, Ain Shamis University, December, 2022.
8. “*Classification Methods for Brain-Computer Interface: A Deep Learning Approach*”, Sara Mohamed Faraj, Ain Shamis University, December, 2024.

6: Awards and Certificates of Appreciation:

- United Nations Development Programme (UNDP) and European Space Agency research fellowship in *Remote Sensing and Information Technology*, European Space Research Institute (ESRIN), 1998-1999, Frascati, Italy.

7: Peer reviewing of scientific research/Projects:

- Building Solar Panel Self Cleaning Robot, STDF, 2019.
- Building a Self-Driving Robot with Deep Reinforcement Learning, submitted to STDF, 2019.
- FPGA Implementation of Maximum Power Point Tracking Fuzzy Controllers for Photovoltaic System, ERI funds the project, 2014.
- Natural Inspired Machine Learning Techniques for Microarray Gene Classification, No. 1430-318, 2008-2009.

8: Other Activities:

Scientific Journals Committee Members

- Member of Editorial Board of SINAI International Scientific Journal

Conferences Program Committee Members

- The Second International workshop on Advanced Computation for Engineering Applications (ICEA' 2003), Cairo Egypt 2003, 21-23 December 2003.
- The World Congress on Computer Science and Information Engineering (CSIE' 2009), Los Angeles/Anaheim, USA, 2009, March 31 - April 2, 2009.
- Head of "Natural Inspired Artificial Intelligence and Its Engineering Applications", at the IEEE International Symposium on Signal Processing and Information Technology (ISSPIT 2009), December 14-17, 2009 - Ajman – UAE.
- The 2009 International conference on the Current Trends in Information Technology (CTIT'09), Dubai, United Arab Emirates on Dec 8 and 9, 2009.
- The 5th International Workshop on Advanced Computation for Engineering Applications (ACEA2010), Taif, Saudi Arabia, 9-11 March, 2010.
- The 1st Taibah University International Conference on Computing and Information Technology, Al-Madinah Al-Munawwarah, Saudi Arabia, 12-14 March 2012.

Invited Talks

- "*Reinforcement Learning in Behavior-Based Robotics*," Al-Ahliyya Amman University, Jordan, Feb, 2005.
- "*Data Clustering from Evolutionary to Swarm Intelligence: A Survey of the State-of-the-Art*," King Khalid University, KSA, May, 2007.
- "*Natural Inspired Artificial Intelligence: A Survey*," Taiba University, Madina, KSA, April, 2010.
- "*Drug Design: A Machine Learning Perspective*," Islamic University, Madina, KSA, Jan, 2013.
- "*Drug Design: The Machine Learning Roles*," Electronics Research Institute, Cairo, Egypt, Oct., 2013.
- "*Big Data: A Closer Look*," Electronics Research Institute, Cairo, Egypt, Dec., 2013.
- "*Embedded Sensor Systems*," Electronics Research Institute, Cairo, Egypt, Dec., 2017.

F) Scientific Publications:

1. "The Role of Artificial Intelligence in Photo-voltaic Systems Design and Control: A Review", A. Mahgoub, M. El-Telbany and A. Zikery. In *Renewable and Sustainable Energy Reviews*, Vol. **78**, pp. **72-79**, **2017**.
2. "A Review of Wireless Sensor Applications in Remote Sensing and Space Industry State of the Art and Challenges", M. El-Telbany and Maha A. Maged. In 3rd International Conference on Advanced Intelligent Systems and Informatics (AISII2017), 2017.
3. "Reconfigurable Generic FPGA Implementation of Fuzzy Logic Controller for MPPT of PV systems", A. Youssef, M, El Telbany, A. Zekry. In *Renewable and Sustainable Energy Reviews*, Vol. **82**, pp. **1313-1319**, **2018**.
4. "Design and simulation of fuzzy controller for three phase grid connected PV systems", A. Youssef, M, El Telbany, A. Zekry. In *International Journal of Engineering & Technology*, Vol. **7**, No. **4**, pp. **5554-5557**, **2018**.

5. “Wireless Sensor Networks for Extreme Environments: Remote Sensing and Space Industry”, M. El-Telbany and Maha A. Maged. International Journal of Hybrid Intelligence, **Vol. 1, No.1, 41-56, 2019.**
6. “Design Optimization for High-Gain Quad-Array of Helical Antennas for Satellites Applications”, M. A. Maged. M. El-Telbany, and Abdelrahman El-Akhdar. In International Conference on Recent Advances in Engineering Mathematics and Physics, Egypt, 2019.
7. “Double Via Rows Radial Four-Way Power Combiner with Improved Isolation Performance”, Abdelrahman El-Akhdar, M. A. Maged. and M. El-Telbany. In International Conference on Recent Advances in Engineering Mathematics and Physics, Egypt, 2019.
8. “*Bringing Intelligence to Egyptian Grid Big Data Analytics and Deep Learning for Smart Meters*”, M. El-Telbany. In International Conference on Artificial Intelligence and Computer Vision (AICV’2020), Cairo, Egypt during April 8-10 2020.
9. “*Deep Learning Classification Methods for Brain-Computer Interface: An Overview*”, S. Farag, S. Refat, and M. El-Telbany. In International Conference on Advanced Machine Learning Technologies and Applications - Proceedings of AMLTA, March, 2021, Springer.
10. “*Deep Learning for Person Identification Using EEG Signals: A Framework*”, Sara Hamed, Rasha A. Ali, W. Arafa, Mohammed El-Telbany. In International Conference on Advanced Intelligent Systems and Informatics, pp. 30-39, 2021.
11. “*Utilizing Vias and Machine Learning for Design and Optimization of X-band Antenna with Isoflux Pattern for Nanosatellites*”, Maha Maged et al., International Conference on Business Intelligence and Information Technology, pp. 796-804, China, 2021.
12. “*Autonomous Payload Imaging System for Remote Sensing Applications*”, Applications of Remote Sensing and GIS Based on an Innovative Vision: Proceeding of the First International Conference of Remote Sensing and Space Science Applications, M. A. Maged, A. S. Hassan, H. Akah, M. El-Telbany, (ICRSSSA2022), Egypt.

G) Quality Assurance in Higher Education:

- **Training Attended Courses**
 - o Basic Principles of Assessment
 - o Written Exam
 - o Research Plan

H) Skills

- Language Skills: **Very Good**
- Computer Skills: **Excellent**
- Presentation skills: **Excellent**
- Other skills: