Curriculum Vitae

Ahmed Shaker Hassan Mahmoud

Associate Professor, Electronics, Communications, and Computers Engineering Department, Faculty of Engineering, Helwan University, Egypt.

Work Address: 1 Shrief St., Helwan, Cairo, Egypt.
Home Address: 6 El sheikh shaltout, Mogwra 2, 15 may city, Helwan, Cairo, Egypt.
Home Phone: +2 02 25517695
Cell Phone: +2 012 232 90501 - +2 011 424 48702
ahmed_shaker1020@yahoo.com
Ahmed_Shaker@h-eng.helwan.edu.eg
scholar.google.com.eg/citations?user=ENbucgsAAAAJ&hl

Objective

To work with a reputed institution as an associate professor, that will provide me a good platform to utilize my teaching & administration skills and will help me to grow my career.

Personal Data

Date of Birth: February 10th, 1976
Place of Birth: Bani-Suef, Egypt
Military Status: Completed.
Marital Status: Married

Academic Education

Helwan University – Cairo, Egypt. Doctor Degree in Communication Engineering.	Graduated: 05/2013 Title**: Design and analysis of UWB antenna using optimization techniques**
Helwan University – Cairo, Egypt. Master Degree in Communication Engineering	Graduated: 07/2006 Title: **Direction of Arrival Estimation with Antenna arrays using neural networks**
Helwan University – Cairo, Egypt. Bachelor of Engineering in Communication and Electronic Engineering	Graduated: 05/1999. Degree: **Excellent with honor, the first**

Professional Qualifications

- Possess about twenty one years' experience in the field of education (both teaching and training).
- Thorough understanding of the subject with ability to convey the same to the students.
- Good communication and comprehension abilities.

- Possess knowledge about the internal administrative tasks that are performed within institutions.

Academic and non-academic Positions

Demonstrator	Faculty of Engineering - Helwan University, Cairo, Egypt 20/12/1999—03/09/2006
Teacher Assistance	Faculty of Engineering - Helwan University, Cairo, Egypt 04/09/2006— 17/06/2013
Assistant Professor	Faculty of Engineering - Helwan University, Cairo, Egypt 18/06/2013— Until now
Assistant Professor	Faculty of engineering- Misr International University (MIU) from summer of 2013 up to summer term 2017/2018 as part time.
Assistant Professor	Faculty of engineering- October University for Modern Sciences & Arts (MSA) from first term of 2013/2014 up to first term 2017/2018 as part time.
Assistant Professor	Faculty of engineering- French University in Egypt from first term of 2015/2016 up to now as part time.
Assistant Professor	October Higher Institute for Engineering & Technology from first term of 2018/2019 as part time up to now
Assistant Professor	Giza higher institute of Engineering and Technology from second term of 2019/2020 up to now

Educational Activities

As an Assistant Professor at Faculty of Engineering, I have been working for 21 years as an instructor and taught the following courses:

1-Mathematics, 2-Physics I and II, 3-Analog and Digital electronics , 4- Industrial electronics 5-Analog and Digital integrated circuits , 6-Automatic control, 7-Electromagnetic Fields, 8- Signal Analysis , 9-Electromagnetic Waves, 10-Antenna Theory, 11- Analog and Digital communication, 12-Satellite communication, 13-Wireless communication, 14-Mobile Communication Networks, 15-Microwave Engineering, 16-Microwave devices, 17- Digital Signal Processing .

University Technical Activities

- Participating in preparing the new syllabus for B.Sc, M.Sc, and Ph.D levels in the department of Electronics, Communications, and Computers Engineering, Faculty of Engineering, Helwan University.
- Member in the department committee for Quality Assurance. Which specializes in, reviewing courses specifications and reports for both undergraduate and postgraduate programs, and preparation of Communication and Electronic Engineering programs specifications and reports for both undergraduate and postgraduate.

- Head of Standard of Authenticity and Ethics for Quality Assurance.
- Deputy manager of project (Developing some laboratories of the Faculty of Engineering in Helwan with modern scientific devices) funded from Helwan university Within the framework of the implementation projects of the strategic plan at Helwan University.

Other Qualifications

1. Successfully passed "Use of Technology in Teaching (ICTP) Workshop," Helwan University.
2. Successfully passed "Competing of Research Funds," Helwan University.
3. Successfully passed "Conference Organization Workshop," Helwan University.
4. Successfully passed "University Administration Workshop," Helwan University.
5. Successfully passed "Scientific Research Workshop," Helwan University.
6. Successfully passed "International Publishing of Research Workshop," Helwan University.
7. Successfully passed "Research Team Management Workshop," Helwan University.
8. Successfully passed "Quality standards in the teaching process," Helwan University.
9. Successfully passed "Analyze data using traditional theory and modern theory," Helwan University.
10. Successfully passed "Curriculum design and course description," Helwan University.
11. Successfully passed "Time and meeting management," Helwan University.
12. Successfully passed "Scientific publishing," Helwan University.
13. Successfully passed "Designing electronic courses," Helwan University.

Computer programming & Knowledge

- Microsoft office
- CST simulator.
- HFSS simulator.
- Familiar with Matlab
- Familiar with electronic simulation programs
- Familiar with Internet

Languages (☺):

Language	Writing	Speaking	Understanding
Arabic	Mother Tongue	Mother Tongue	Mother Tongue
English	Very Good	Very Good	Very Good

Research Interests

My research activities focused on Antennas design, UWB antennas, MIMO antenna, Passive MIMO antenna, Optical Nano-antennas, Microwave engineering, Radar communications, Satellite communications, mobile communications and Optimization techniques

Publications:

1-S.H. Zainud-Deen, I.I. Ibrahim, Sabry M.M. Ibrahem and **A. Shaker** Hassan, " Radial Basis Function Neural Networks for Filling the MoM Impedance Matrix" 23rd National Radio Science Conference (NRSC 2006) March 14-16, 2006. IEEE Xplore, **DOI:** 10.1109/NRSC.2006.386319

2- S.H. Zainud-Deen, I.I. Ibrahim, Sabry M.M. Ibrahem and **A. Shaker** Hassan, " Neural Network- Based CAD Model for the Design of Hemispherical Dielectric Resonator Antenna with a Concentric Conductor" 23rd National Radio Science Conference (NRSC 2006) March 14-16, 2006. IEEE Xplore, **DOI:** 10.1109/NRSC.2006.386323.

3- Ahmed Shaker , S. H. Zainud-Deen, K.R. Mahmoud and S. M. Ibrahem, " Compact Bluetooth/UWB Antenna with Multi-Band Notched Characteristics" Journal of Electromagnetic Analysis and Applications (JEAA), vol. 3, pp. 512-516, Dec. 2011.

4- S. H. Zainud-Deen , Ahmed Shaker , and K. R. Mahmoud, "Planar Circular Monopole Antenna with Perforated Dielectric Resonator for Notched Ultra-Wide Band Applications" ACES journal vol. 27, no. 6, pp. 516-523, June 2012, with 1.0 IF in this year.

5- S.H.Zainud-Deen, Ahmed Shaker, and K.R.Mahmoud "Design of Notched Ultra-wideband Antenna with Irregular Radiator Shape Using Bacterial Swarm Optimization (BSO)" National Radio Science Conference 2013 (NRSC 2013), April 16- 18, published in the IEEE Xplore.

6- Ahmed Shaker, Hossam Helaly, and Ahmed Khaled "Triple Band Multi-Input-Multi-Output Antenna for Wireless Applications" International Journal of Scientific & Engineering Research, Volume 5, Issue 7, July-2014.

7- Ahmed shaker, "Compact, Quasi Self-Complementary (QSC) Ultra-wide band (UWB) antenna integrated with Bluetooth" National Radio Science Conference 2017 (NRSC 2017), March 13- 16, published in the IEEE Xplore. Doi: 10.1109/NRSC.2017.7893464

8- Fatma E. Helmy, Mohamed Hussein, Mohamed Farhat. O. Hameed, Ahmed Shaker, M. El-Adawy, and S. A. Obayya, " Optimal design of yagi-uda nanoantennas based on elliptical shaped elements," SPIE Photonics Europe, Strasbourg, France, 2018. doi: 10.1117/12.2306259

9- Mohamed A. Hafez, Ayman Haggag, Ahmed Shaker, and Sayed Singy "Optimized Interference Cancelation based Stepped-Trapezoidal Notched UWB Antenna" Automatic Control and System Engineering Journal, ISSN 1687-4811, Volume 18, Issue 2, ICGST, Delaware, USA, December 2018.

10- M. Abdel Aziz , M. El Dosoki, **Ahmed Shaker**, M.AlFiqi and A.Noaman " Mitigating The Risks of Electromagnetic Radiation on Workers in Air Traffic Control Tower at Suhag Airport" Ass. Univ. Bull. Environ. Res. Vol. 22 No. 1, March 2019.

11- Fatma E. Helmy, Mohamed Hussein, Mohamed Farhat. O. Hameed, Ahmed Shaker, M. El-Adawy, and S. A. Obayya, " Design of Metallo-dielectric YagiUda Nanoantennas based on Rectangle Prism Shell Elements Shape," SPIE OPTO, San Francisco, California, United States, 2019. doi: 10.1117/12.2509292

12- Fatma E. Helmy, Mohamed Hussein, Mohamed Farhat. O. Hameed, Ahmed Shaker, M. El-Adawy, and S. A. Obayya, " Effect of Yagi-Uda Nano-antenna Element Shape on the Directivity and Radiation Efficiency," Optical and Quantum Electronics, Springer US. 51:120 (April 2019). doi.org/10.1007/s11082-019-1774-3

13- Amal Megahed , AhmedShaker, and Korany R.Mahmoud "Optimal design of planar terahertz Yagi-

Uda antenna using adaptive chaos optimization algorithm" Optik-International journal for lights and electron optics, Vol., 191, pp: 146-151, August 2019. doi.org/10.1016/j.ijleo.2019.05.103

14- Amal Megahed , AhmedShaker, and Korany R.Mahmoud " Optimized planar terahertz Yagi-Uda antenna using hybrid GSA-PSO optimization algorithm" IOP Conference Series: Materials Science and Engineering, Volume 610, Number 1, September 2019 . doi:10.1088/1757-899X/610/1/012092

15- David Youssef, Ahmed Shaker, Korany R Mahmoud " Double Layer-Resistive FSS Ultra Wideband Absorber with Improved Thickness to Bandwidth Ratio" 7th International Japan-Africa Conference on Electronics, Communications, and Computations,(JAC-ECC), 2019. doi: 10.1109/JAC-ECC48896.2019.9051270

16- David Youssef, Ahmed Shaker, Korany R Mahmoud " Microwave Absorber with Optimized and Perforated Matching Layer for Double Layer Resistive- FSS" 8th International Japan-Africa Conference on Electronics, Communications, and Computations,(JAC-ECC), 2020.

17- Wael Ahmed, Ayman Haggag, and Ahmed Shaker " A Triple- U Triple Domain Antenna Designed for Mobile Generations Supporting Up to 5G" International Journal of Scientific & Technology Research, Vol. 9, No. 12,PP: 136:140, Dec. 2020. ISSN 2277-8616.

18- Ahmed Shaker, Ayman Haggag " Design of Band-Notched MIMO Antenna for UWB Applications" Journal of Communications Vol. 16, No. 1, January 2021. doi:10.12720/jcm.16.1.1-7

Please see scholar.google.com.eg/citations?user=ENbucgsAAAAJ&hl

References

1- Prof. Shaber Helmy Zainud-Deen , Electronics and Electrical Communications Engineering Department, Faculty of Electronic Engineering, Minoufiya University Email: anssaber1@yahoo.com.

2- Prof. Ahmed Elgarhy, Electronics, Communications, and Computers Engineering Department, Faculty of Engineering, Helwan University, Egypt. The current faculty Dean. Email: agarhy2003@yahoo.com

3- Prof. Ihab Ali, Electronics, Communications, and Computers Engineering Department, Faculty of Engineering, Helwan University, Egypt. The current Head of department. Email: ehab_ali02@h-eng.helwan.edu.eg

4- Assoc. Prof. Sabry Mohamed Ibrahim, Electronics, Communications, and Computers Engineering Department, Faculty of Engineering, Helwan University, Egypt. Email: sabryibrahem52@yahoo.com

5- Prof. Korny Ragab Mahmoud, Electronics, Communications, and Computers Engineering Department, Faculty of Engineering, Helwan University, Egypt. Email: dr.aymanragab@yahoo.com