



Ahmed Kabeel

IEEE AP-S SOCIETY MEMBER

15 A. ELNADEM St. PORTFOAD, PORTSAED,
Egypt

6th Jun 1990

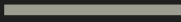
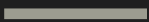

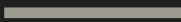
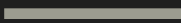
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ABOUT ME

Dr.Ahmed received a BSc degree in electronics and communication engineering from higher institute of engineering and technology in new Damietta, Egypt in 2012 and received his M.Sc. in 2015 from Mansoura university and Ph.D. in 2019 from AL Menia university, His M.Sc. dedicated to UWBA design for ground penetrating radar for environmental exploration, the Ph.D. is devoted to introduce a new spectrum sensing algorithm based on antenna array for cognitive radio application also has introduce an enhancement using beamforming algorithm, Ahmed also is **IEEE Member AP-S Society**

Skills

MATLAB: 
CST: 
ADS: 
MULTISIM: 
Circuit Wizard: 

❖ Education

2019

PhD In Electrical Engineering (Electronics and Electrical Communications Engineering)
AL Menia University 28/8/2019

2016-2019

PHD

Thesis registration date: 15 / 3 / 2016

title "Efficient spectrum sensing techniques based on antenna arrays for cognitive radio applications"

AL Menia University

2015

Master Degree in engineering science, in the field of Environmental engineering management and Technology: 27 /12/ 2015

Al Mansoura University

2014-2015

Al Mansoura University

Thesis registration date: 29 / 10 / 2014

Title: "Realization of Ground Penetrating Radar System for Environmental Explorations"

2013 - 2014

Pre- master, engineering science, in the field of Environmental engineering management and Technology

Al Mansoura University

2007 – 2012

Bachelor's Degree of Engineering, Department of Communication and Electronics.

Higher institute Of Engineering & Technology in New Damietta

❖ Work Experience

❖ **Higher institute of Engineering and Technology in New Damietta:**

Department of Communication and Electronics

Research Assistant “2013 – 2015”

Teaching Assistant “2015-2019”

❖ **Higher institute of Engineering and Technology in New Damietta:**

“2019 – present”

- Assistant Professor, Department of Communication and Electronics
- Head of scientific research evaluation criterion
- Director of the Entrepreneurship and Innovations Unit
- Head of the Entrepreneurship and Innovations Unit
- Member of the Strategic Planning Committee of the Quality Assurance Unit
- Student schedules Committee Chairman

❖ **Qalamy for publishing and translation UAE: “2014-2016”**

General Manager of the Egyptian branch

❖ **Future Academy for Engineering and Technology “2019-2020”**

Assistant Professor, Department of Basic science (Partial assignment)

❖ **Higher institute of Engineering and Technology in El Mahala: “2020-present”**

Assistant Professor, Mechatronics Dept. (Partial assignment)

❖ **Tanta Higher institute of Engineering and Technology: “2022-present”**

Deputy director of quality assurance unit. (Partial assignment)

❖ **Samanoud Technological University: “2022-present”**

Assistant Professor, Department of Basic science (Partial assignment)

❖ **Professional Society Involvement**

❖ **Eco Cities Journal “wearable device simulation section.”**

Co-Editor

❖ **Multidisciplinary Digital Publishing Institute (MDPI): “March 2023- present”**

V. Reviewer

❖ List of publication

- **Scientific publication**

- 1- Mohamed E.Nasr, Amr H. Hussien, MohamedG. Saafan and **Ahmed A. Kabeel** “**Realization of ground penetrating radar system for environmental exploration**”, (IJERT), volume 4, issue 05, May 2015, e-issn:2278-0181
- 2- Mohamed E.Nasr, Amr H. Hussien, MohamedG. Saafan and **Ahmed A. Kabeel** “**Hardware implementation of Ground Penetrating Radar (GPR)**” Mansoura university international conference for engineering in Sharm El Sheikh 2015
- 3- **Ahmed A. Kabeel**, Amr H. Hussien, Ashraf A. M. Khalaf and Hesham F. A. Hamed “**A utilization of multiple antenna elements for matched filter based spectrum sensing performance enhancement in cognitive radio system**”. AEU - International Journal of Electronics and Communications, Volume 107, July 2019, Pages 98-109
- 4- Amr H. Hussien, Ashraf A. M. Khalaf, Hesham F. A. Hamed and **Ahmed A. Kabeel** “**High Gain UWB Antenna Element Design for Cognitive Radio Systems using Low Cost FR4 Substrate**”. American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS) ISSN (Print) 2313-4410, ISSN 2313-4402.2019
- 5- Abd Elnaby Kabeel, Mohamed Abdelgaied, Ravishankar Sathyamurthy & **Ahmed Kabeel** “**A comprehensive review of technology used to improve the performance of PV systems in a view of cooling mediums, reflector design, spectrum splitting and economic analysis**”. Environmental science and pollution research, part of springer nature 2020
- 6- Haythem Abdullah ,Mohamed Mabrouk, **Ahmed Kabeel** and Amr Hussein “**High-Resolution and Large-Detection-Range Virtual Antenna Array for Automotive Radar Applications**”. *Sensors* 2021, 21, 1702

- 7- Hager Shawky Fouda, **Ahmed Abd-Elnaby Kabeel**, Mohamed El-Said Nasr & Amr Hussein Hussein “**Multi-Dimensional Small-Scale Cooperative Spectrum Sensing Approach for Cognitive Radio Receivers**” IEEE Access, vol. 9, pp. 76602-76613, 2021.
- 8- Mohammed El Hadi Attiaa, AbdElnaby Kabeel, Ayman Refat Abd Elbar, Mohamed Abdelgaied, A.S Abdullah, Mohamed M. Khairat Dawood & **A.Kabeel** “**Improving the performance of a modified hemispherical solar distiller using a double-face absorbing solar thermal receiver integrated with solar concentrator**” Solar energy, vol241, 2022, p335-342
- 9- AbdElnaby Kabeel, Mohamed Abdelgaied, **A.Kabeel** “**Three phase induction motor drive with back-to-back converter by V/f method using TYPHOON HIL SOFTWARE**” international conference of engineering science and technology, (ICEST2022), Luxor, Egypt2022
- 10- Rania A. Youssef, M. A. Mohammed & **A.Kabeel** “**Characterization of tunable ultrawideband square microstrip antenna with several gaps**”, the international telecommunication conference, ITC-EGYPT 2022.
- 11- Swellam Wafa Sharshir, Ahmed Elhelow, **Ahmed Kabeel**, Aboul Ella Hassanien, Abd Elnaby Kabeel & Mostafa Elhosseini “**Deep neural network prediction of modified stepped double-slope solar still with a cotton wick and cobalt oxide nanofluid**” Environmental science and pollution research.2022
- 12- Rania A. Youssef, M. A. Mohammed & **A.Kabeel** “**Evaluation of energy detection- Based spectrum sensing for cognitive radio application**”. IEEE. Xplore. MEJ. Mansoura Engineering Journal. 22-07-1290

- 13- D. Lakshmi, M. Sangeetha, R. k. Padmaskini, **Ahmed kabeel** & A. Mattha “**Design and development of voice controlled solar powered electric bicycle with location tracking**” DU-IECRI2022
- 14- Ibrahim A. El Naga , Nassim M. Mahmoud, Rania H. Elabd, Salah A. Khamis, **Ahmed A. Kabeel** & Amr H. Hussein “**SIR-Based Compact Microstrip Diplexer with Low Insertion Loss and High Isolation for C-Band Communication** ” DU-IECRI2022

❖ **Research Contributions and Experience**

Over the years, I have been extremely lucky to work with researchers and collaborators on diverse projects and ideas at a variety of institutions, from the academic world [*Mansoura university, Tanta University, Electronics Research Institute, Menia University, Horus University, Kafr Elsheikh University, Delta University (Egypt), King Fahd University (KSA), El Oued University, (ALGERIA), Kongu Engineering College (India)*]. Each of these experiences has led to publications, well-respected bodies of work and implementation, and/or patents.

My current research has two primary goals. The first is to continue my most mature and well-established areas of research in Microwave engineering and RF Energy Harvesting. The second is to expand and diversify my current research program to pursue new opportunities in the rapidly growing and challenging field of Artificial Intelligent and neural network

- **Literary publication**

- 1- “Astral”, science fiction novel,
published with Qalamy for publishing and translation 2015
- 2- “Lazarus”, religious novel,
published with El Fouad for publishing and translation 2019

- ❖ **Conferences**

- Mansoura university international conference for engineering in Sharm El sheikh, Egypt
- international conference of engineering science and technology, (ICEST2022), Luxor, Egypt
- the international telecommunication conference, ITC-EGYPT 2022, Air defense college, Egypt
- international engineering conference of Research and Innovation (DU-IECRE), Egypt 2022
- IEEE APS-URSI conference Portland, USA, 2023
-

❖ Patent

1. “Detection of rotor faults in synchronous motor using motor current signature analysis and instantaneous power analysis method”. (patented num , NP :202011043088. IP Nation d-177 gf Shyam park , Sahibabad-201006 Ghaziabad.)
2. A method for rainfall prediction using artificial neural network. NP :202011068485, IP Nation d-177 gf Shyampark, Sahibabad-201006 Ghaziabad.) 2020

❖ International Monographs

1. Microstrip Antenna Design for Wireless Applications, Chapter 10: Design Considerations in MIMO Antenna for Next Generation 5G Wireless Communication “**Taylor and Francis Group, 2020.England**”
2. An insight into Mimo antenna for next generation 5g wireless communications Chapter, **CRC Press**

❖ Courses Teaching Experience

- Process control and loop tuning
- Electrical troubleshooting technique
- Transformer principle and maintenance
- Fire system loop
- Fire and gas detection systems
- Electrical and instrumentation in hazardous areas

❖ MASTERS SUPERVISION

1- **Rania Youssef** “Performance Enhancement of spectrum sensing system using antenna arrays for a cognitive radio application”
Mansoura University

2- **Hader Abd El Rauf** “Microstrip Antenna Design Using CST Optimized by Neural Network Algorithm”
Mansoura University

❖ Courses

Tanta University

SCADA
CST Microwave studio
Advanced Design System (ADS)
Multisim Analog Devices Edition
Circuit wizard

Mansoura University

MatLab 1.2
Classic control
PLC

Menia University

End note
Statistical Package for Social Sciences (Spss)
Ethics of scientific research
Student assessment systems

JASCO “oil and gas generator”

2010 Training Control and Safety

❖ **Computer and language skills**

Arabic: native speaker;

English: near native speaker;

French: good;

Computer literate: Windows applications

❖ **Activities /_Interests**

Reading novels

Drawing

Physics and cosmos science

Travelling,

International affairs,

Italian history,

Meeting friends.

Volunteer work

❖ **Talents**

Piano, writing novels and football

❖ **Communication skills**

Ability to interact and effectively communicate with people from diverse backgrounds, highlighting teamwork and problem solving.

❖ **contact Links**

<https://www.researchgate.net/profile/Ahmed-Kabeel-2>

<https://www.facebook.com/ahmedee.kabeel/>

<https://www.instagram.com/ahmedkabeel/>