

Date Submitted: 2020-07-12 11:27:12

Confirmation Number: 1164129

Template: Full CV

Dr. Mohamed Mamdouh Mahmoud Ali

Previous First Name: Mohamed

Previous Family Name: Ali

Correspondence language: English

Sex: Male

Date of Birth: 12/31

Canadian Residency Status: Work Permit

Applied for Permanent Residency?: Yes

Country of Citizenship: Egypt

Contact Information

The primary information is denoted by (*)

Address

Temporary (*)

855 RUE GALT VERDUN

309

Montreal Quebec H4G 3G3

Canada

Telephone

Mobile (*) +1-514-963 3575

Email

Work (*) mohamed.ali@ieee.org

Dr. Mohamed Ali

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
Arabic	Yes	Yes	Yes	Yes	Yes
English	Yes	Yes	Yes	Yes	Yes

Degrees

- 2016/1 - 2020/4 Doctorate, Electrical and Computer Engineering, Concordia University
 Degree Status: Completed
 Thesis Title: Millimeter-Wave Components and Antennas for Spatial and Polarization Diversity using PRGW Technology
 Supervisors: Abdel Razik Sebak, 2016/1 - 2020/5
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Areas of Research: Microwaves and Hyperfrequencies
 Fields of Application: Communication and Information Technologies
- 2011/3 - 2013/9 Master's Thesis, Electrical Engineering, Assiut University
 Degree Status: Completed
 Thesis Title: Design of Compact Ultra-wide Band Microstrip Antennas of Dual and Triple band Notched
 Supervisors: Elsayed Esam Mohamed Khaled Mohamed, 2011/3 - 2013/9
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Areas of Research: Microwaves and Hyperfrequencies
 Fields of Application: Communication and Information Technologies
- 2005/9 - 2010/10 Bachelor's, Electronic and Communication Engineering, Assiut University
 Degree Status: Completed
 Supervisors: Usama Sayed Mohammed Sayed
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Fields of Application: Communication and Information Technologies

Recognitions

- 2019/5 - 2019/6
 Concordia University Conference and Exposition Award - 1,000 (Canadian dollar)
 Concordia University
 Prize / Award
 Concordia university award for graduate students to present at major scholarly conferences, or artistic exhibitions in a peer-reviewed or juried context
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Areas of Research: Microwaves and Hyperfrequencies
 Fields of Application: Communication and Information Technologies
- 2018/1 - 2018/3
 Concordia Accelerator Award - 5,000 (Canadian dollar)
 Concordia University
 Prize / Award
 A competition in Concordia for the PhD students who completed all the PhD requirements except the thesis
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Areas of Research: Microwaves and Hyperfrequencies
 Fields of Application: Communication and Information Technologies
- 2017/5 - 2017/6
 Concordia University Conference and Exposition Award - 1,000 (Canadian dollar)
 Concordia University
 Prize / Award
 Concordia university award for graduate students to present at major scholarly conferences, or artistic exhibitions in a peer-reviewed or juried context
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Areas of Research: Microwaves and Hyperfrequencies
 Fields of Application: Communication and Information Technologies
- 2016/5 - 2016/6
 Concordia University Conference and Exposition Award - 1,000 (Canadian dollar)
 Concordia University
 Prize / Award
 Concordia university award for graduate students to present at major scholarly conferences, or artistic exhibitions in a peer-reviewed or juried context
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Areas of Research: Microwaves and Hyperfrequencies
 Fields of Application: Communication and Information Technologies
- 2016/1 - 2018/12
 Concordia University Full Tuition Recruitment Award - 45,000 (Canadian dollar)
 Concordia University
 Prize / Award
 It is an award for the high ranking student to fully pay the tuition fees of the university
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Areas of Research: Microwaves and Hyperfrequencies
 Fields of Application: Communication and Information Technologies

2010/6 - 2010/7 Distinction with Honor degree (Egyptian pound)
 Assiut University
 Honor
 It is an award for student obtained Distinction degree in the five years of the bachelor
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Areas of Research: Telecommunication Systems
 Fields of Application: Communication and Information Technologies

User Profile

Researcher Status: Researcher
 Research Career Start Date: 2011/03/03
 Engaged in Clinical Research?: No

Research Interests: Microwave reciprocal/nonreciprocal design and analysis, high-power microwave systems, and antenna/antenna array design

Research Specialization Keywords: Antenna/ Antenna Feeding Structures, Beam Switching system, Electromagnetic wave, Microwave Components, Millimeter wave communication, Reciprocal and non reciprocal devices, Ridge Gap Waveguide

Disciplines Trained In: Electrical Engineering and Electronic Engineering

Research Disciplines: Electrical Engineering and Electronic Engineering

Areas of Research: Microwaves and Hyperfrequencies

Fields of Application: Communication and Information Technologies

Countries: Egypt, Canada

Employment

2016/1 - 2020/5 Research Assistant
 Concordia University
 Full-time
 Research Assistant at faculty of electrical and computer engineering Concordia University. During this period, I was doing my research to resume my PhD thesis. This research was focused on the design and implementation of mmwave antenna and devices based on printed ridge gap waveguide.

Research Disciplines: Electrical Engineering and Electronic Engineering

2019/9 - 2020/2 Microwave and Antenna Technician Trainer
 Concordia University
 Part-time
 Training of microwave and antenna technician to testing microwave component and antennas and using lab equipment including VNA and radiation pattern measurements
 Research Disciplines: Electrical Engineering and Electronic Engineering
 Areas of Research: Microwaves and Hyperfrequencies
 Fields of Application: Communication and Information Technologies

- 2019/9 - 2019/12 Teaching Assistant
Concordia University
Part-time
Assisted in teaching Microwave engineering and Antenna labs
Research Disciplines: Electrical Engineering and Electronic Engineering
Areas of Research: Microwaves and Hyperfrequencies
Fields of Application: Communication and Information Technologies
- 2018/1 - 2019/3 Research Engineer (Part-time Internship)
Electrical Engineering, Scientific Microwave Corporation (SMC)
Part-time
Design and testing microwave component in defence, communication and space applications. This including the following tasks: Design reciprocal microwave components such as couplers, adapters and terminations. Design ferrite material based components junction circulators, differential phase shifters and duplexeres.
Research Disciplines: Electrical Engineering and Electronic Engineering
Areas of Research: Microwaves and Hyperfrequencies
Fields of Application: Communication and Information Technologies
- 2011/3 - 2015/12 Research and Teaching Assistant
Electrical Engineering, Assiut University
Full-time, Lecturer
Tenure Status: Tenure, 2011/3 -
Research and Teaching Assistant at Faculty of Engineering Assiut University. During this period, I was a teaching assistant in the following courses: 1- Digital Design Lab. 2- Electronic Design Lab. 3- Microwave Devices 4- Electromagnetic Field 5- Communication Lab. 6- Antenna and wave propagation. Besides the teaching assistant work, I was doing my research to resume my master thesis. This research was focused on the design of ultra wide band (UWB) printed antennas.
Research Disciplines: Electrical Engineering and Electronic Engineering
Areas of Research: Wave Pollution (Noise, Microwaves, Electromagnetic Fields)

Affiliations

The primary affiliation is denoted by (*)

(*) 2016/1 - 2020/5 Research Assistant, Concordia University

Research Funding History

Completed [n=2]

2016/1 - 2019/12 Egyptian mission for PhD, Scholarship
Principal Applicant Clinical Research Project?: No

Funding Sources:

2016/1 - 2019/12	Egyptian Government Total Funding - 93,024 (Canadian dollar) Portion of Funding Received - 93,024 (Canadian dollar)
2016/5 - 2019/5	Concordia University Total Funding - 52,500 (Canadian dollar) Portion of Funding Received - 35,000 (Canadian dollar)

Funding by Year:

2016/1 - 2019/12 Total Funding - 93,024 (Canadian dollar)
 Portion of Funding Received - 93,024 (Canadian dollar)
 Time Commitment: 70

Research Disciplines: Electrical Engineering and Electronic Engineering

Areas of Research: Microwaves and Hyperfrequencies

Fields of Application: Communication and Information Technologies

Principal Investigator : Sebak, Abdelrazik

2018/1 - 2019/3
Principal Applicant

NSERC PERSWADE Training Program, Scholarship

Clinical Research Project?: No

Project Description: In this work, we are proposed the design and implementation of the mm-wave components required for the realization of beam switching enabling 5G communicationsystems. The first part is focused on the feeding structure, where practical mm-wave hybrid directional couplers are implemented based on PRGW technology. The second part is focused on the RF source protection systems, where mm-wave PRGW circulator and isolators are implemented. Another activity is to propose different designs for millimeter-wave antennas which suitable for specific applications. The final part is deployed the outcomes of the previous designed components informing an efficient beam switching system.

Research Settings: Canada (Both)

Funding Sources:

2018/1 - 2019/3 Natural Sciences and Engineering Research Council of Canada
 (NSERC)
 PERSWAD Training
 Total Funding - 28,000 (Canadian dollar)

Funding by Year:

2018/1 - 2019/3 Total Funding - 28,000 (Canadian dollar)
 Portion of Funding Received - 28,000 (Canadian dollar)
 Time Commitment: 70

Research Disciplines: Electrical Engineering and Electronic Engineering

Areas of Research: Microwaves and Hyperfrequencies

Fields of Application: Communication and Information Technologies

Collaborator : Shams, Shouky;

Principal Investigator : Sebak, Abdelrazik

Courses Taught

- 2013/01/01 -
2015/12/31 Lecturer, Electrical Engineering, Assiut University
Course Title: Guided Waves and Antennas (A)
Course Code: EE 324
Course Level: Undergraduate
Academic Session: Winter
Number of Students: 100
Number of Credits: 4
Lecture Hours Per Week: 12
Lab Hours Per Week: 3
- 2013/01/01 -
2015/12/31 Lecturer, Electrical Engineering, Assiut University
Course Title: Electrical Testing(B)
Course Code: EE 323
Course Level: Undergraduate
Academic Session: Fall
Number of Students: 100
Number of Credits: 4
Lecture Hours Per Week: 6
Lab Hours Per Week: 3
- 2013/01/01 -
2015/12/31 Lecturer, Electrical Engineering, Assiut University
Course Title: Guided Waves and Antennas (B)
Course Code: EE 324
Course Level: Undergraduate
Number of Students: 100
Number of Credits: 4
Lecture Hours Per Week: 12
Lab Hours Per Week: 3
- 2011/01/01 -
2015/12/31 Lecturer, Electrical Engineering, Assiut University
Course Title: Electrical Testing (A)
Course Code: EE 323
Course Level: Undergraduate
Academic Session: Winter
Number of Students: 100
Number of Credits: 4
Lecture Hours Per Week: 6
Lab Hours Per Week: 3
- 2011/01/01 -
2015/12/31 Lecturer, Electrical Engineering, Assiut University
Course Title: Electromagnetic Field Theory (2-A)
Course Code: E221
Course Level: Undergraduate
Academic Session: Winter
Number of Students: 300
Number of Credits: 4
Lecture Hours Per Week: 12
Lab Hours Per Week: 3

2011/01/01 - 2015/12/31	Lecturer, Electrical Engineering, Assiut University Course Title: Digital Circuit Design Course Code: E228 Course Level: Undergraduate Academic Session: Fall Number of Students: 300 Number of Credits: 4 Lecture Hours Per Week: 12 Lab Hours Per Week: 3
2011/01/01 - 2015/12/31	Lecturer, Electrical Engineering, Assiut University Course Title: Electric Testing (B) Course Code: E224 Course Level: Undergraduate Academic Session: Fall Number of Students: 100 Number of Credits: 4 Lecture Hours Per Week: 12 Lab Hours Per Week: 3
2011/01/01 - 2015/12/31	Lecturer, Electrical Engineering, Assiut University Course Title: Electromagnetic Field Theory (2-B) Course Code: E221 Course Level: Undergraduate Academic Session: Fall Number of Students: 300 Number of Credits: 4 Lecture Hours Per Week: 12 Lab Hours Per Week: 3

Student/Postdoctoral Supervision

Bachelor's Honours [n=3]

2019/1 - 2019/7 Co-Supervisor	Mahmoud Ashraf El-Kholy (Completed) , German University Student Degree Start Date: 2015/9 Student Degree Received Date: 2020/5 Student Canadian Residency Status: Not Applicable Thesis/Project Title: Reconfigurable microwave components based on Ridge Gap waveguides Project Description: In this project the student performed a detailed analysis for building a reconfigurable RGW. The outcomes of this project will be submitted to EuCAP2021 Present Position: Engineer Other Supervisors: Principal Supervisor - Allam, Abdelmagid Research Disciplines: Electrical Engineering and Electronic Engineering Areas of Research: Microwaves and Hyperfrequencies Fields of Application: Communication and Information Technologies
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2019/1 - 2019/7
Co-Supervisor

Mohamed Yasser (Completed) , German University
Student Degree Start Date: 2013/9
Student Degree Received Date: 2019/6
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Hybrid coupler design based on Ridge gap waveguide Technology
Project Description: The project is focused on the design of ultra wide band hybrid coupler based on RGW technology. The student managed to obtain very wide band design compared to all published couplers in the literature. This design is published in the APMC 2019 conference "an international conference in the field of antennas and microwave components"
Present Position: Engineer
Other Supervisors: Principal Supervisor - Allam, Abdelmagid
Research Disciplines: Electrical Engineering and Electronic Engineering
Areas of Research: Microwaves and Hyperfrequencies
Fields of Application: Communication and Information Technologies

2013/1 - 2013/7
Academic Advisor

Andrew Mamdouh (Completed) , Assiut University
Student Degree Start Date: 2008/9
Student Degree Received Date: 2013/7
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Design and implementation of reconfigurable quad-band microstrip antenna for MIMO wireless communication applications
Project Description: The project is focused on the design and implementation of reconfigurable quad-band microstrip antenna for MIMO wireless communication applications. The student managed to design A quad band planar microstrip-line-fed printed circuit board (PCB) antenna. This design is published in the 31st National Radio Science Conference (NRSC).
Present Position: Engineer
Other Supervisors: Principal Supervisor - Haraz, Osama
Research Disciplines: Electrical Engineering and Electronic Engineering
Areas of Research: Microwaves and Hyperfrequencies
Fields of Application: Communication and Information Technologies

Master's Thesis [n=1]

2018/1 - 2019/4
Academic Advisor

Syed M. Sifat (In Progress) , Concordia University
Degree Name: Doctorate
Student Degree Start Date: 2017/1
Student Degree Expected Date: 2019/5
Student Canadian Residency Status: Study Permit
Thesis/Project Title: 30 GHz Broadband Bow-tie Printed Ridge Gap Waveguide Antennas
Project Description: In this project a groove-based wideband bow-tie slot antenna array is designed at 30 GHz based on printed ridge gap waveguide technology (PRGW). Then, the proposed high gain element is deployed to build up a 1 bow-tie slot antenna array loaded with three-layer groove antenna. The proposed antenna array is fabricated and measured, where a high gain and wide bandwidth are achieved.
Present Position: Student, Concordia University
Student Country of Citizenship: Bangladesh

Other Supervisors: Co-Supervisor - Shams, Shoukry; Principal Supervisor - Sebak, Abdelrazik

Research Disciplines: Electrical Engineering and Electronic Engineering
Areas of Research: Microwaves and Hyperfrequencies
Fields of Application: Communication and Information Technologies

Doctorate [n=3]

2020/7
Academic Advisor

Haitham (In Progress) , Minya university
Degree Name: Doctorate
Student Degree Start Date: 2019/4
Student Degree Expected Date: 2022/9
Student Canadian Residency Status: Not Applicable
Thesis/Project Title: Circularly polarized antennas in 5G communication systems
Present Position: Student, Minya university in Egypt

Other Supervisors: Co-Supervisor - Shams, Shoukry; Principal Supervisor - Allam, Abdelmagid

2019/1 - 2020/5 Academic Advisor	<p>Elham (In Progress) , Baghernia Degree Name: Doctorate Student Degree Start Date: 2017/9 Student Degree Expected Date: 2020/12 Student Canadian Residency Status: Study Permit Thesis/Project Title: Slot Spiral Cavity Backed Antenna Array Fed by Printed Gap Waveguid Project Description: In this project, a low profile and wide band circularly polarized slot spiral antenna array excited by a printed gap waveguide (PGW) feeding network has been done. A new technique to excite the slot spiral antenna has been proposed. The sequential feeding is implemented by PGW technology which results in high efficiency of the array structure. A prototype of the proposed antenna was fabricated and measured to evaluate the antenna performance, where a wide impedance and axial ratio bandwidth with high gain is achieved. The outcome of this project is submitted to IEEE Antenna and Propagation Transaction. Present Position: Student, Concordia University Other Supervisors: Principal Supervisor - Sebak, Abdelrazik Research Disciplines: Electrical Engineering and Electronic Engineering Areas of Research: Microwaves and Hyperfrequencies Fields of Application: Communication and Information Technologies</p>
2017/1 - 2018/1 Academic Advisor	<p>Eslam Afifi (In Progress) , Concordia University Degree Name: Doctorate Student Degree Start Date: 2017/9 Student Degree Expected Date: 2020/12 Student Canadian Residency Status: Study Permit Thesis/Project Title: Analysis and Design of a Wideband Coaxial Transition to Metal and Printed Ridge Gap Waveguide Project Description: In this project, a wideband coaxial to ridge gap transition is proposed and implemented. The transition has a compact size, wide bandwidth, and simple structure. It can be used to excite ridge gap waveguides implemented by the printed circuit board or computer numerical control (CNC) technologies. The outcomes of this project is published in IEEE Access. Present Position: Student, Concordia University Student Country of Citizenship: Egypt Other Supervisors: Principal Supervisor - Sebak, Abdelrazik Research Disciplines: Electrical Engineering and Electronic Engineering Areas of Research: Microwaves and Hyperfrequencies Fields of Application: Communication and Information Technologies</p>

Journal Review Activities

2020/5	<p>Reviewer, IEEE Access Number of Works Reviewed / Refereed: 2</p>
2018/11 - 2019/1	<p>Reviewer, IEEE Microwave and Wireless Components Letters Number of Works Reviewed / Refereed: 1</p>

Event Participation

2020/5 - 2020/5	Presenter, The 2020 IEEE AP-S Symposium on Antennas and Propagation, Conference Present a paper on the design of hybrid coupler based on PRGW technology.
2018/10 - 2018/10	Participant, STARaCom Industry Networking, Workshop Presenting poster and attending lectures which includes: 1-Research opportunities: National Research Council and Defence Research and Development Canada. 2- Fellowships 3-McGill Representative
2018/8 - 2018/8	Presenter, 18th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Conference Presenting research papers
2017/12 - 2017/12	Participant, STARaCom launch, Workshop Presenting poster and attending workshops which includes: 1- Low-Latency Communication and Deploying Internet in Developing Countries 2-Enabling Technologies for Sustainable Smart City Networks 3-The IEEE Green ICT Initiative 4-STARaCom for graduate students
2017/11 - 2017/11	Participant, Third IEEE Research Boost "Give Your Research an Industrial Edge", Conference Presenting a paper on the design of printed ridge gap waveguide beam switching components
2017/8 - 2017/8	Presenter, XXXII International Union of Radio Science General Assembly and Scientific Symposium, Conference Present a paper on the design of 5G directive antennas
2017/7 - 2017/7	Presenter, IEEE International Symposium on Antennas and Propagation (USNC/URSI) National Radio Science Meeting,, Conference Present a paper on the design of mmWave antenna
2016/7 - 2016/7	Presenter, 17th International Symposium on Antenna Technology and Applied Electromagnetic, Conference Presenting research papers
2013/8 - 2013/8	Presenter, Progress In Electromagnetic Research Symposium, PIERS 2013, Conference Present a paper on the design of UWB antenna

Presentations

- (2018). Reconfigurable Guiding Structure Based on Printed Ridge Gap Waveguide Technology. 2018 18th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Ontario, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No
- (2017). 4x 2-slot element for 30-GHz planar array antenna realized using SIW cavity and fed by microstrip line line-ridge gap waveguide. 2017 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, California, United States
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No

3. (2016). Design of a dual-band printed slot antenna with utilizing a band rejection element for the 5G wireless applications. 2016 IEEE International Symposium on Antennas and Propagation (APSURSI), Puerto Rico,
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No
4. (2016). Broadband printed slot antenna for the fifth generation (5G) mobile and wireless communications. 2016 17th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Montreal, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No
5. (2016). Dual band (28/38 GHz) CPW slot directive antenna for future 5G cellular applications. 2016 IEEE International Symposium on Antennas and Propagation (APSURSI), Puerto Rico,
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No
6. (2016). Design of compact millimeter wave massive MIMO dual-band (28/38 GHz) antenna array for future 5G communication systems. 2016 17th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Montreal, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No
7. (2016). Broadband printed slot antenna for the fifth generation (5G) mobile and wireless communications. 2016 17th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Montreal, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No
8. (2016). Compact UWB high gain fermi taper slot antenna for future 5G communication systems. 2016 17th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Montreal, Canada
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No
9. (2013). A Microstrip-fed Printed Slot Antenna for 3G/Bluetooth/WiMAX and UWB Applications with 3.6 GHz Band Rejection. Progress In Electromagnetics Research Symposium, Stockholm, Sweden
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No
10. (2013). A Proximity-fed Elliptical-shaped Aperture UWB Antenna with Triple Band-rejection Property. Progress In Electromagnetics Research Symposium, Stockholm, Sweden
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No
11. (2013). Curve-fitting Formulas for Fast Determination of Frequency Band-notched Response of UWB Antennas. Progress In Electromagnetics Research Symposium, Stockholm, Sweden
Main Audience: Researcher
Invited?: No, Keynote?: No, Competitive?: No

Publications

Journal Articles

1. Mohamed Mamdouh M. Ali, Mahmoud Elsaadany, Shoukry I. Shams, Abdelrazik Sebak, Ghyslain Gagnon. On the Design of Broadband Rectangular Waveguide Pressure Windows. IEEE Transactions on Microwave Theory and Techniques.
First Listed Author
Accepted, 2020,
Refereed?: Yes, Open Access?: No
Number of Contributors: 5
Contribution Percentage: 71-80
2. Mahmoud Elsaadany, Shoukry I. Shams, Mohamed Mamdouh M. Ali, Abdelrazik Sebak, and Walaa Hamouda. (2020). Full band Compact Power Arm Subsystem with High Directive Sample. IEEE Access.
Co-Author
Accepted, IEEE,
Refereed?: Yes, Open Access?: Yes
Number of Contributors: 5
Contribution Percentage: 31-40
3. Mohamed Mamdouh M. Ali, Islam Afifi, Abdel-Razik Sebak. (2020). A Dual Polarized Magneto-Electric Dipole Antenna Based on Printed Ridge Gap Waveguide Technology. IEEE Transactions on Antennas and Propagation. : 1-1.
First Listed Author
Published, IEEE,
Refereed?: Yes, Open Access?: No
Number of Contributors: 3
Contribution Percentage: 61-70
4. Syed M. Sifat, Mohamed Mamdouh M. Ali And Shoukry I. Shams, And Abdel-Razik Sebak. (2019). High Gain Bow-tie Slot Antenna Array Loaded with Grooves based on Printed Ridge Gap Waveguide Technology. IEEE Access. 7: 36177-36185.
Co-Author
Published, IEEE,
Refereed?: Yes, Open Access?: Yes, Synthesis?: Yes
Number of Contributors: 4
Contribution Percentage: 31-40
5. Mohamed Mamdouh M. Ali and Abdelrazik Sebak. (2019). Printed RGW Circularly Polarized Differential Feeding Antenna Array for 5G Communications. IEEE Transactions on Antennas and Propagation. 67(5): 3151-3160.
First Listed Author
Published, IEEE,
Refereed?: Yes, Open Access?: No, Synthesis?: Yes
Number of Contributors: 2
Contribution Percentage: 61-70
6. Mohamed Mamdouh Mahmoud Ali, Shoukry I. Shams, and Abdelrazik Sebak. (2019). Ultra-wideband printed ridge gap waveguide hybrid directional coupler for millimetre wave applications. IET Microwaves, Antennas and Propagation. 13(8): 1181-1187.
First Listed Author
Published, IET,
Refereed?: Yes, Open Access?: No, Synthesis?: Yes
Number of Contributors: 3
Contribution Percentage: 51-60

7. Mohamed Mamdouh Mahmoud Ali , Shoukry I. Shams , Abdelrazik Sebak. (2018). Low Loss and Ultra Flat Rectangular Waveguide Harmonic Coupler. IEEE Access. 6: 38736--38744.
First Listed Author
Published, IEEE,
Refereed?: Yes, Open Access?: Yes, Synthesis?: Yes
Number of Contributors: 3
Contribution Percentage: 51-60
8. Mohamed Mamdouh M. Ali , and Abdel-Razik Sebak. (2018). 2-D Scanning Magnetolectric Dipole Antenna Array Fed by RGW Butler Matrix. IEEE Transactions on Antennas and Propagation. 66(11): 6313--6321.
First Listed Author
Published, IEEE,
Refereed?: Yes, Open Access?: No, Synthesis?: Yes
Number of Contributors: 2
Contribution Percentage: 61-70
9. Islam Afifi, Mohamed Mamdouh M. Ali , And Abdel-Razik Sebak. (2018). Analysis and Design of a Wideband Coaxial Transition to Metal and Printed Ridge Gap Waveguide. IEEE Access. 6: 70698--70706.
Co-Author
Published, IEEE,
Refereed?: Yes, Open Access?: Yes, Synthesis?: Yes
Number of Contributors: 3
Contribution Percentage: 41-50
10. Mohamed Mamdouh M. Ali , Shoukry I. Shams, And Abdel-Razik Sebak. (2018). Printed Ridge Gap Waveguide 3-dB Coupler: Analysis and Design Procedure. IEEE Access. 6: 8501-8509.
First Listed Author
Published, IEEE,
Refereed?: Yes, Open Access?: Yes, Synthesis?: Yes
Number of Contributors: 3
Contribution Percentage: 51-60
11. Mohamed Mamdouh M. Ali ,Shoukry I. Shams , Abdelrazik Sebak, and Ahmed A. Kishk. (2018). Rectangular Waveguide Cross-Guide Couplers: Accurate Model for Full-Band Operation. IEEE Microwave and Wireless Components Letters. 28(7): 561-563,.
First Listed Author
Published, IEEE,
Refereed?: Yes, Open Access?: No, Synthesis?: Yes
Number of Contributors: 4
Contribution Percentage: 61-70
12. Mohamed Mamdouh M. Ali and Abdel-Razik Sebak. (2018). Compact Printed Ridge Gap Waveguide Crossover for Future 5G Wireless Communication System. IEEE Microwave and Wireless Components Letters. 28(7): 549-551.
First Listed Author
Published, IEEE,
Refereed?: Yes, Open Access?: No
Number of Contributors: 2
13. Mohammed Akbari, Mohamed Mamdouh M. Ali, Mohammadmahdi Farahani , Abdel-Razik Sebak and Tayeb A. Denidni. (2017). Spatially mutual coupling reduction between CP-MIMO antennas using FSS superstrate. Electronics Letters. 53(8): 516--518.
Co-Author
Published, IET Digital Library,
Refereed?: Yes, Open Access?: No, Synthesis?: Yes
Contribution Percentage: 41-50

14. Nadeem Ashrafa, Osama Mohamed Haraza, Mohamed Mamdouh M. Ali, Mohamed Ahmad Ashrafa, Saleh Abdullah, Saleh Alshebil. (2016). Optimized Broadband and Dual-Band Printed Slot Antennas for the Future 5G Mobile Networks. *AEÜ-International Journal of Electronics and Communications*. 70(3): 257-264.
Co-Author
Published,
Refereed?: Yes, Open Access?: Yes
Number of Contributors: 5
Contribution Percentage: 21-30
15. Mohamed Mamdouh M. Ali and A. A. Saad and Elsayed Esam M. Khaled. (2014). Implementation and justification of a triple frequency-notched UWB proximity-fed antenna with shunt stubs. *Microwave and Optical Technology Letters*. 56(3): 646--654.
First Listed Author
Published,
Refereed?: Yes, Open Access?: No, Synthesis?: Yes
Number of Contributors: 3
Contribution Percentage: 51-60
16. A. A. Saad and Ali, Mohamed Mamdouh M and Elsayed Esam M. Khaled. (2013). Prediction formulas for a notched frequency response of a printed ultra-wideband antenna loaded with notching resonators. *The Journal of Engineering*. 2013(12): 83--85.
Co-Author
Published, IET,
Refereed?: Yes, Open Access?: No, Synthesis?: Yes
Contribution Percentage: 41-50
17. Mohamed Mamdouh M. Ali, Ayman Ayd R. Saad, and Elsayed Esam M. Khaled. (2013). A Design of Miniaturized Ultrawideband Printed Slot Antenna with 3.5/5.5 GHz Dual Band-Notched Characteristics: Analysis and Implementation. *Progress In Electromagnetic Research B*. 52: 37-56.
First Listed Author
Published,
Refereed?: Yes, Open Access?: Yes
Number of Contributors: 3
Contribution Percentage: 61-70
18. Ayman Ayd R. Saad, Mohamed Mamdouh M. Ali and Elsayed Esam M. Khaled. (2013). An Integrated 3G/Bluetooth and UWB Antenna with Frequency Band-Notched Feature. *Journal of Electromagnetic Waves and Applications*. 27(18): 2430-2441.
Co-Author
Published,
Refereed?: Yes, Open Access?: Yes
Contribution Percentage: 61-70

Thesis/Dissertation

1. Millimeter-Wave Components and Antennas for Spatial and Polarization Diversity using PRGW Technology. (2020). Concordia University. Doctorate.
Number of Pages: 164 Supervisor: Abdelrazik Sebak
Contribution Percentage: 91-100
Description / Contribution Value: The main purpose of this thesis is to design mmWave components, antenna subsystems and utilize both in beam switching systems. The major mmWave components addressed in this thesis are hybrid coupler, crossover, and differential power divider where the host guiding structure is the PRGW. In addition, various designs for differential feeding PRGW antennas and antenna arrays are presented featuring wide bandwidth and high gain in mmWave band. Moreover, the integration of both the proposed components and the featured antennas is introduced. This can be considered as a significant step toward the requirements fulfillment of today's advanced communication systems enabling both space and polarization diversity. The proposed components are designed to meet the future ever-increasing consumer experience and technical requirements such as low loss, compact size, and low-cost fabrication.
2. Design of Compact Ultra-wide Band Microstrip Antennas of Dual and Triple band Notched. (2013). Assiut University. Master's Thesis.
Number of Pages: 173 Supervisor: Elsayed Essam M. Khaled
Contribution Percentage: 81-90
Description / Contribution Value: This thesis focuses on a band-notched UWB printed slot antenna design and analysis. Studies have been performed covering the aspects of UWB fundamentals and antenna theory. Extensive investigations were carried out on three different designs of UWB printed slot antennas having frequency band-notched properties. Moreover, a SPICE-compatible circuit modeling of any of the proposed antenna is obtained and verified through the use of the modified rational function modeling technical.

Supervised Student Publications

1. Elham Baghernia
2x2 Slot Spiral Cavity Backed Antenna Array Fed by Printed Gap Waveguide. IEEE Transactions on Antennas and Propagation. (2020).
Submitted, IEEE,
Student Contribution (%): 60
Contribution Percentage: 21-30
2. Mohamed Yasser Soliman
Ridge Gap Waveguide Wideband Hybrid Directional Coupler for Ka-Band Applications. 2020 7th International Conference on Electrical and Electronics Engineering (ICEEE). (2020).
Published, IEEE,
Student Contribution (%): 75
Contribution Percentage: 71-80
3. Syed M. Sifat
High Gain Bow-Tie Slot Antenna Array Loaded With Grooves Based on Printed Ridge Gap Waveguide Technology. IEEE Access. (2019). (7): 36177 - 36185.
Published, IEEE,
Student Contribution (%): 75
Contribution Percentage: 51-60

4. Islam Afifi
Wideband Printed Ridge Gap Semi-Log Periodic Structure Antenna for Millimeter Wave Applications. 2018 18th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM). (2018).
Published, IEEE,
Student Contribution (%): 50
Contribution Percentage: 31-40
5. Islam Afifi
Analysis and design of a wideband coaxial transition to metal and printed ridge gap waveguide. IEEE Access. (2018). (6): 70698 - 70706.
Published, IEEE,
Student Contribution (%): 50
Contribution Percentage: 31-40
6. Andrew mamdouh
Design and implementation of reconfigurable quad-band microstrip antenna for MIMO wireless communication applications. 31st National Radio Science Conference (NRSC). (2014).
Published, IEEE,
Student Contribution (%): 50
Contribution Percentage: 21-30

Working Papers

1. Co-Author. (Mahmoud~Elsaadany, Mohamed Mamdouh M. Ali, Shoukry I. Shams, Tayeb A. Denidni, and Ghyslain~Gagnon). (1). A Novel Design Technique for mm-Wave Mismatch Terminations. : 8.
Number of Contributors: 5

Conference Publications

1. Mahmoud Elsaadany, Shoukry I. Shams, Mohamed Mamdouh M. Ali, Abdelrazik Sebak, Ghyslain Gagnon, Daa E. Fawzy, and A. M. M. A. Allam. (2020). On the Design of Reconfigurable Wideband Ridge Gap Waveguide Amplifier Modules. 2020 7th International Conference on Electrical and Electronics Engineering (ICEEE). 7th International Conference on Electrical and Electronics Engineering (ICEEE), Antalya, Turkey (8-11). IEEE, Turkey
Conference Date: 2020/4
Paper
Co-Author
Published
Number of Contributors: 7
Contribution Percentage: 51-60
2. M. Y. Soliman, Mohamed Mamdouh Mahmoud. Ali, S. I. Shams, M. F. A. Sree, D. E. Fawzy and A. M. M. A. Allam. (2020). Ridge Gap Waveguide Wideband Hybrid Directional Coupler for Ka-Band Applications. 2020 7th International Conference on Electrical and Electronics Engineering (ICEEE), Turkey, (211-214). IEEE,
Conference Date: 2020/4
Paper
Co-Author
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Refereed?: Yes
Contribution Percentage: 51-60

3. Shoukry I. Shams , Mohamed Mamdouh M. Ali , A. Sebak, Mahmoud Elsaadany, Ghyslain Ganon, Diao E. Fawzy, and Abdelmegid M. M. Allam. (2020). Interfacing Wideband Amplifiers Using Ridge Gap Waveguide for mm-Wave Systems. 2020 7th International Conference on Electrical and Electronics Engineering (ICEEE). International Conference on Electrical and Electronics Engineering (ICEEE), Turkey, (202-205). IEEE,
Conference Date: 2020/4
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Co-Author
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Contribution Percentage: 51-60
4. Shoukry I. Shams, Mohamed Mamdouh M. Ali, Mahmoud Elsaadany, Abdelmegid M. M. Allam, and Ghyslain Ganon. (2020). A Reconfigurable Wideband Ridge Gap Waveguide Amplifier: Enabling 6G mobile communication. 2020 7th International Conference on Electrical and Electronics Engineering (ICEEE), Antalya, Turkey. IEEE,
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5. Islam Afifi, Mohamed Mamdouh M. Ali , and Abdel-Razik Sebak. (2018). Wideband Printed Ridge Gap Semi-Log Periodic Structure Antenna for Millimeter Wave Applications. 2018 18th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Waterloo, ON, Canada, (1-2). IEEE,
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7. Shoukry I. Shams, Mohamed Mamdouh M. Ali, and Abdel-Razik Sebak. (2018). Reconfigurable Guiding Structure Based on Printed Ridge Gap Waveguide Technology. 2018 18th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Waterloo, ON, Canada, (1-2). IEEE,
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Contribution Percentage: 61-70
8. Mohamed Mamdouh M. Ali and Abdel-Razik Sebak. (2017). Directive antennas for future 5G mobile wireless communications. 2017 XXXIInd General Assembly and Scientific Symposium of the International Union of Radio Science (URSI GASS), Montreal, QC, Canada, (1--4). IEEE,
Conference Date: 2017/8
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Number of Contributors: 2
Contribution Percentage: 81-90

9. Mohamed Mamdouh M. Ali and Abdel-Razik Sebak. (2017). 4x2-slot element for 30-GHz planar array antenna realized using SIW cavity and fed by microstrip line line-ridge gap waveguide. 2017 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, San Diego, CA, USA, (2149-2150). IEEE,
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10. Mohamed Mamdouh M. Ali , Osama Haraz , Saleh Alshebeili , and Abdel-Razik Sebak. (2016). Broadband printed slot antenna for the fifth generation (5G) mobile and wireless communications. 2016 17th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Montreal, QC, Canada, (1--2). IEEE,
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11. Mohamed Mamdouh M. Ali and Abdel-Razik Sebak. (2016). Compact UWB high gain fermi taper slot antenna for future 5G communication systems. 2016 17th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Montreal, QC, Canada, (1--2). IEEE,
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Contribution Percentage: 81-90
12. Mohamed Mamdouh M. Ali and Abdel-Razik Sebak. (2016). Design of compact millimeter wave massive MIMO dual-band (28/38 GHz) antenna array for future 5G communication systems. 2016 17th International Symposium on Antenna Technology and Applied Electromagnetics (ANTEM), Montreal, QC, Canada, (1-2). IEEE,
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13. Mohamed Mamdouh M. Ali , Osama Haraz , and Saleh Alshebeili. (2016). Design of a dual-band printed slot antenna with utilizing a band rejection element for the 5G wireless applications. 2016 IEEE International Symposium on Antennas and Propagation (APSURSI), Fajardo, Puerto Rico, (1865--1866). IEEE,
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14. Mohamed Mamdouh M. Ali and Abdel-Razik Sebak. (2016). Dual band (28/38 GHz) CPW slot directive antenna for future 5G cellular applications. 2016 IEEE International Symposium on Antennas and Propagation (APSURSI), Fajardo, Puerto Rico, (399--400),
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15. Mohamed Mamdouh M. Ali, Osama Haraz, Ibrahim Elshafiey, Saleh Alshebeili, and Abdel-Razik Sebak. (2015). Efficient SAR localization for hyperthermia treatment of cancer cells by applying a dual-band 8-element phased-array. 2015 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, Vancouver, BC, Canada, (1772-1773). IEEE,
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16. Osama M. Haraz and Mohamed Mamdouh M. Ali. (2015). A millimeter-wave circular reflectarray antenna for future 5G cellular networks. 2015 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, Vancouver, BC, Canada, (1534--1535). IEEE,
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17. Osama M. Haraz , Mohamed Mamdouh M. Ali , Saleh Alshebeili, and Abdel-Razik Sebak. (2015). Design of a 28/38 GHz dual-band printed slot antenna for the future 5G mobile communication networks. 2015 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, Vancouver, BC, Canada, (1532--1533). IEEE,
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18. Osama Haraz, Mohamed Mamdouh M. Ali , Ayman Elboushi , and Abdel-Razik Sebak. (2015). Four-element dual-band printed slot antenna array for the future 5G mobile communication networks. 2015 IEEE International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, Vancouver, BC, Canada, (1-2). IEEE,
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19. Mohamed Mamdouh M. Ali , Osama M. Haraz , Saleh Alshebeili , and Abdel-Razik Sebak. (2015). Broadband millimeter-wave rectangular reflectarray antenna utilizing novel polarization insensitive multi-resonant unit cells. 2015 32nd National Radio Science Conference (NRSC), 6th of October City, Egypt, (9--16). IEEE,
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20. Mohamed Mamdouh M. Ali , Osama Haraz, Ibrahim Elshafiey ,Saleh Alshebeili , and Abdel-Razik Sebak. (2014). Efficient single-band and dual-band antennas for microwave imaging and hyperthermia treatment of brain tumors. 2014 IEEE International Conference on Control System, Computing and Engineering (ICCSCE 2014), Batu Ferringhi, Malaysia, (597--600). IEEE, Conference Date: 2014/11
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21. Mohamed Mamdouh M. Ali, Andrew M. Azmy, and Osama M. Haraz. (2014). Design and implementation of reconfigurable quad-band microstrip antenna for MIMO wireless communication applications. 2014 31st National Radio Science Conference (NRSC), Cairo, Egypt, (27-34). IEEE, Conference Date: 2014/4
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22. Mohamed Mamdouh M. Ali, Ayman Ayd R. Saad, and Elsayed Esam M. Khaled. (2013). A Proximity-fed Elliptical-shaped Aperture UWB Antenna with Triple Band-rejection Property. PIERS Proceedings, Stockholm, Sweden, (1-2), Conference Date: 2013/8
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