

Dr. Demyana A. A. Saleeb

Associate Professor, Departement of Mathematics and Engineering Physics.

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Areas of Specialization

Electromagnetics theory, electromagnetic absorbing materials, RF energy harvesting, design of antennas for cancer detection, EBG materials, reconfigurable antennas.

Education

- March 2015 : Ph.D in Electronics and Communications Engineering, College of Electronic Engineering, Menoufia University, Egypt.
Dissertation : Physics of Electromagnetic Band Gap Materials and Applications for the Enhancement of Antennas' Properties.
- Oct 2010: M.Sc in Electronics and Communications Engineering, College of Electronic Engineering, Menoufia University, Egypt.
Thesis : Application of Transmission Line Matrix Method to Antenna Problems.
- June 2005 : B.Sc with Distinction First Class Honors in Electrical Engineering - Electronics and Communications Emphasis. Joint program between University of Modern Sciences and Arts, Cairo, Egypt, and Greenwich University, United Kingdom.

Employment History

- Jan 2022 – Present : Associate Professor, School of Engineering, Kafrelshiekh University, Egypt.
- July 2015 – Jan 2022 : Assistant Professor, School of Engineering, Kafrelshiekh University, Egypt.
- Jan 2011 – July 2015 : Teaching Assistant, School of Engineering, Kafrelshiekh University, Egypt.
- Jan 2009 – Jan 2011 : Demonstrator , School of Engineering, Kafrelshiekh University, Egypt.
- Sept 2005 – Dec 2008 : Demonstrator , Obour Higher Institute for Engineering and Technology, Cairo , Egypt.

Training

1. (8/2021): "Fundamentats of Digital Transformation".
2. (4/1 – 6/1 / 2019): "DL-101 General Course on Intellectual Property".
3. Two-day course (4-5 Dec., 2019) : "Research Team Management".
4. Two-day course (10-11 July, 2019) : "Time and Meetings Management".
5. Two-day course (16-17 Sept., 2018) : "Conferences Organization".
6. Two-day course (2-3 Sept., 2018) : "University Management".
7. Three-day course (8-10 Aug., 2017) : "Preparing Competitive Research Projects".
8. Three-day course (16-18 July., 2017) : "International Scientific Publishing".
9. ICDL Dec 2011.
10. Three-day course (22-24 Nov., 2011) : "Ethics of Profession".

11. Eight-day course (10/25 - 11/1/2011) : "Information Technology and Systems : Excel – IT – Maintenance".
12. Five-day course (20-24 Oct., 2011) : "Information Technology and Systems : Windows and Internet".
13. Three-day course (13-15 Sept., 2011) : "Quality Standards in Teaching Process".
14. Three-day course (10-12 Sept., 2011) : "Active Presentation Skills".
15. Five-day course (1-5 Aug., 2010): "Self Evaluation for Higher Education Institutions".
16. Two-day course (25-26 July, 2010) : "Strategic Planning for Higher Education Institutions".
17. Three-day course (16-18 Feb., 2010) : "Financial and Legal Aspects of University Education".
18. Three-day course (1-3 Aug., 2009): "Ethics of Scientific Research".
19. Three-day course (20-22 Jun., 2009) : "Quality Assurance".
20. Four-day course (1-4 Apr., 2009) : "Communication Skills in Education Modes".
21. One month course (2/23 – 3/22/ 2009) on "Preparatin of university teacher".

Softwar Skills

MATLAB, Arduino, ADS, HFSS, CST.

Publications

Journal Papers

1. **Demyana A. Saleeb**, Rehab M. Helmy, Nihal F. Areed, Mohamed Marey, Khaled Mohamad Almustafa, Ahmed S. Elkorany, "Detection of Kidney Cancer Using Circularly Polarized Patch Antenna Array," DOI:10.1109/ACCESS.2022.3192555 ,IEEE Access, 2022.
2. Ahmed A. Hassan, Rania R. Elsharkawy. **Demyana A. Saleeb**, El-Sayed M. Rabie, Ahmed S. Elkorany, "Single-beam graphene reflectarray for terahertz band communication," DOI: 10.1007/s10470-022-02033-y, Analog Integr Circ Sig Process, 2022.
3. Ahmed S. Elkorany, Alyaa N. Mousa, Sarosh Ahmad, **Demyana A. Saleeb**, Adnan Gh, Mohammad Soruri, Mariana Dalarsson, Mohammad Alibakhshikenari, Ernesto Limiti, "Implementation of a Miniaturized Planar Tri-Band Microstrip Patch Antenna for Wireless Sensors in Mobile Applications," DOI: 1424-8220/22/2/667, MDPI, 2022.
4. **Demyana A. Saleeb**, Rehab M. Helmy, Nihal F. Areed, Mohamed Marey, Wazie M. Abdulkawi, Ahmed S. Elkorany, "A Technique for the Early Detection of Brain Cancer using Circularly Polarized Reconfigurable Antenna Array," DOI: 10.1109/ACCESS.2021.3115707, IEEE Access, 2021.
5. Kyrillos K. Selim, Shaochuan Wu, **Demyana A. Saleeb**, Sherif S. M. Ghoneim, "A Quad-Band RF Circuit for Enhancement of Energy Harvesting," Electronics – MDPI, 2021.
6. Ahmed S. Elkorany , Hesham A. Mohamed , Zeinab F. Elsharkawy , **Demyana A. Saleeb**, "Heart shaped reconfigurable band notched ultra-wide band antenna

- Using electromagnetic band-gap structure and varactor diodes," *Analog Integrated Circuits and Signal Processing*, 2020.
7. KK Selim, S Wu, **D. A. Saleeb**, "RF Energy Scavenging With a Wide-Range Input Power Level," *IEEE Access*, 7, 173450-173462, 2019.
 8. GT Ahmed, AS Elkorany, **D. A. Saleeb**, "Planar UWB antenna with double band rejection capability using double inclined ESRRs," *Radioelectronics and Communications Systems*, 62 (3), 119-126, 2019.
 9. AS Elkorany, SA Saad, **D. A. Saleeb**, "Compact Reconfigurable Band Notched UWB Cylindrical Dielectric Resonator Antenna Using Single Varactor Diode," *Advanced Electromagnetics*, 7 (3), 35-39, 2018.
 10. AS Elkorany, GT Ahmed, **D. A. Saleeb**, "A Planar UWB Antenna with Dual Band Rejection Capability Using Double Rotated ESRRs," *Advanced Electromagnetics*, 7 (1), 19-24, 2018.
 11. AS Elkorany, G Ahmed, **Demyana A. Saleeb**, HA Mohamed, "Tunable elliptical split ring resonator using single varactor diode," *Advanced Electromagnetics*, 7 (1), 7-12, 2018.
 12. AS Elkorany, GT Ahmed, **D. A. Saleeb**, "A Double Rotated ESSRs," *Advanced Electromagnetics*, 7, 2018.
 13. GT Ahmed, AS Elkorany, SM Elhalafawy, **D. A. Saleeb**, "New Band notched UWB monopole antenna using Hexagonal SRR," *Menoufia Journal of Electronic Engineering Research*, 27 (1), 127-138, 2018.
 14. AS Elkorany, GT Ahmed, SM Elhalafawy, **D. A. Saleeb**, "New dual band notched UWB monopole antenna using two HSRRs," *CiiT International Journal of Wireless Communication*, 9 (06), 2017.
 15. AA Hassan, AS Elkorany, **D. A. Saleeb**, "Mushroom-like Electromagnetic Band Gap based Polarization Converters for Millimeter Wave Applications," *Menoufia Journal of Electronic Engineering Research*, 26 (1), 53-66, 2017.
 16. AA Hassan, AS Elkorany, **D. A. Saleeb**, "Reconfigurable Polarization Converters Using EBG Structures with Varactor Diodes," *Menoufia Journal of Electronic Engineering Research*, 26 (1), 67-78, 2017.
 17. Hesham A. Mohamed, Ahmed S. Elkorany, Sammar A. Saad, **Demyana A. Saleeb**, "New simple flower shaped reconfigurable band-notched UWB antenna using single varactor diode," *Progress In Electromagnetics Research*, 76, 197-206, 2017.
 18. AS Elkorany, SA Saad, SM Elhalafawy, **D. A. Saleeb**, "Band Notched Circular Ultra Wideband Monopole Antenna Using Electromagnetic Band Gap Structure," *Wireless Communication*, 9 (7), 133-136, 2017.
 19. **Demyana A. Saleeb**, Ahmad S. ElKorany, Said M. Elhalafawy, and Arafa A. Nasef, "Theory and Design of Polarization Cnverters Made of Mushroom-like Electromagnetic Band Gap Materials," *International Journal of Enhanced*

Research in Science, Technology & Engineering, ISSN No: 2319-7463",
Impact Factor : 1.252, Vol. 4, Issue 1, January, 2015.

20. **Demyana A. Saleeb**, Ahmad S. ElKorany, Said M. Elhalafawy, and Arafa A. Nasef, "Electromagnetic Band Gap Materials Simplify the Structure of Dual Polarized Satellite Communication Antennas," International Journal of Enhanced Research in Science, Technology & Engineering, ISSN No: 2319-7463, Impact Factor : 1.252, Vol. 3, Issue 12, December, 2014.
21. **D. A. Saleeb**, MG ElKholly, S ElRabiey, TM Halim, "Determination of Resonance Frequencies of Meander Line Antennas Using Two Dimensional Transmission Line Modeling Method," Menoufia Journal of Electronic Engineering Research, 20 (2), 147-156, 2010.

Conference Papers

1. KK Selim, S Wu, **Demyana A. Saleeb**, "An Optimized Rectifier Design for RF Energy Harvesting at the 2.45 GHz WiFi Frequency Band," 27th International Conference on Telecommunications (ICT), 2020.
2. **Demyana A. Saleeb**, "Microwave Sterilization of Wooden Artifacts," 3rd International Conference on Coptic Heritage between Originality and Contemporaneity, Egypt, 22-24 March 2019.
3. Samar A. Saad, Ahmed S. ElKorany, **Demyana A. Saleeb**, "Band Notching UWB Planar Monopole Antenna Using EBG," The Second International Conference Menoufia University ,Sharm El Sheikh, Egypt, 16-20 March 2019.
4. Kyrillos K. Selim, Shaochuan Wu, **Demyana A. Saleeb**, "Improved Harvested RF Energy for Cyber-physical Energy Systems," IEEE Global Communications Conference 9-13 December 2019, Waikoloa, HI, USA , 978-1-7281-0960-2, IEEE ,2019.
5. **D. A. Saleeb**, AS Elkorany, AA Saleeb, "Polarimetry radar calibration using trihedral corner reflectors with electromagnetic band gap polarization converters," 2015 IEEE MTT-S International Conference on Microwaves for Intelligent .
6. **Demyana A. Saleeb**, Ahmed S. Elkorany, Said M. Elhalafawy, Arafa A. Nasef, "A Simple Procedure for the Design of Electromagnetic Band Gap Materials for Polarization Transformation," 1st IET Colloquium on Antennas, Wireless and Electromagnetic , 29th May 2013, Loughborough University, Loughborough, UK.
7. **Demyana A. Saleeb** and Adel A. Saleeb, "Design of Chirp Signals for On-body Communications," Symposium on: On-body Communications, London, June 2011.
8. **Demyana A. Saleeb** and Adel . A. Saleeb, "Design of Signals for On-body Communications Systems Using Prolate Spheroidal Wave Functions," Symposium on On-body Communication Systems, London, 2011.
9. **Demyana A. Saleeb** and Adel . A. Saleeb, "Modeling of Log Periodic Dipole Array using Two-dimensional Transmission Line Matrix," Symposium on Cognitive Radio Communications, London, 4th Oct 2010.

Attending Conferences

1. 27th International conference on Telecommunication 5-7 october,2020, Virtual conference, (Indonesia).
2. 3rd International Conference on Coptic Heritage between Originality and Contemporaneity, Egypt, 22-24 March 2019.
3. The Second International Conference Menoufia University, Sharm El Sheikh March 2019.
4. National URSI Conference, Cairo April 2015.
5. Symposium on On-body Communications Systems, London, June 2011. (Grant from IET UK to attend the conference).
6. Symposium on Cognitive Radio Communications, London, 4 Oct 2010.

Membership of Scientific Organizations

- Member of Egyptian Engineering Syndicate - since Oct 2005.
- Member of IET (UK) - since 2004
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- Web of Science ResearcherID: AAF-2902-2020

Reviewer for

- IEEE International Conference on Electrical, Computer, and Energy Technologies (ICECET'21) Cape Town, South Africa 09-10 December 2021.
- International Journal of Communication Systems, 2021.

Reference

Available upon request.