

Sanaa Salama, Dr.-Ing.

Curriculum Vitae

PERSONAL DATA

Date of birth

15.02.1984

Gender

Female

Family Status

Married with three children

Nationality

Jordan

Address

Arab American University
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EDUCATION

- PhD in Electrical Engineering (October 2011-April 2015): High Frequency Technology Department (HFT), *Duisburg-Essen University*, Germany. Dissertation title: “Electromagnetic Modelling and Optimization of Antennas on small Platforms”. Specialization area: Phased Antenna Arrays, Multi-Ports Antenna Systems (MIMO) /Mutual Coupling and Chassis Wavemodes Coupling.
- M.Sc. in Electrical Engineering (August 2009): *Jordan University*, Jordan, excellent evaluation GPA 3.83/4. Master’s thesis title: “Enhanced Dual-band Planar Inverted F-L Antenna for WLAN applications”.Specialization area: Multiband Antenna Design.
- B.Sc. in Telecommunication Technology (June 2006): *Arab American University (AAUJ)*, Palestine, first class honors GPA 3.96/4. Bachelor’s thesis title: “Simulation of End to End Communication System Using Matlab/Simulink and Multisim”. Specialization area: Communication Systems.

EXPERIENCE AND WORKSHOPS

- Lecturer (February 2010-September 2011), Telecommunication Engineering Department, Arab American University (AAUJ), Palestine.
- Committee Member for Foundation of Antenna and Microwave Lab, Telecommunication Engineering Department, AAUJ, Palestine.
- Exercise Supervision (WS 2013/2014), Microwave Theory and Techniques, High Frequency Department, Duisburg-Essen University, Germany.
- Reviewer for “Multi Band PIFA Antenna GSM, WLAN and WiMAX for Mobile Phone Applications”, Majlesi Journal of Electrical Engineering, Islamic Azad University, Iran.
- Reviewer for “A Novel UWB Wearable Antenna”, submitted to Zuhair Hijjawi Award for undergraduate research, Palestine.
- Reviewer for “Capacity & Coverage Enhancement in 3G WCDMA Wataniya Cellular Network”, submitted to Zuhair Hijjawi Award for undergraduate research, Palestine.
- Workshop on “LTCC for Highly Integrated Antenna Front Ends”, (13 November 2013), Loughborough, UK.
- Workshop on “Multibeam Antennas and Beamforming Networks/Electronic Scanned Arrays Design”, (10 October 2014), Rome, Italy.
- Assistant Professor (September 2015-current), Telecommunication Engineering Department, Arab American University (AAUJ), Palestine.
- Chairperson (September 2016 – August 2018), Telecommunication Engineering Department, Arab American University (AAUJ), Palestine.
- Membership as a returning expert in the Deutsche Gesellschaft für internationale Zusammenarbeit (GIZ) GmbH, 01.08.2017-31.07.2019.
- As a reviewer for Asia Pacific Microwave Conference APMC2017, Kuala Lumpur, Malaysia, November 2017.
- Workshop on “Sustainable Development, the Centre for International Migration and Development (CIM)”, (23-24 February 2018), Amman, Jordan.
- As a reviewer for International Journal of Information and Communication Sciences (IJICS); ISSN: 2575-1700 (Print); ISSN: 2575-1719 (Online); <http://www.sciencepublishinggroup.com/j/ijics>, June, 2018-June, 2020.

- As a reviewer for 2018 IEEE International RF and Microwave Conference (RFM2018), Penang, Malaysia, December 2018.
- As a reviewer for 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT 2019), Amman, Jordan, April 2019.

Courses taught at AAUJ:

1. Electromagnetic Theory I
2. Electromagnetic Theory II
3. Electrical Circuits I
4. Electrical Circuits II
5. Microwave Systems
6. Analog Communications
7. Digital Communications

Labs taught at AAUJ:

1. Analog Communications Lab
2. Digital Communications Lab
3. Electrical Circuits Lab
4. Digital Logic Design Lab
5. Antennas and Microwave Lab.

PUBLICATIONS (Books and Papers)

- S. Salama, and Mohamed K. Abdelazeez, “Multiband Planar Inverted-F Dual-L Antenna (PIFDLA) for WLAN Applications”, *Journal of King Saud University-Engineering Sciences JKSU*, vol. 24, no. 1, pp. 61-69, January 2012.
- S. Salama, and K. Solbach, “Equivalent Circuit Modeling of Monopoles on a Small Platform,” *International Workshop on Antenna Technology iWAT2013*, Karlsruhe, Germany, March 2013.
- S. Salama, and K. Solbach, “Design of Decoupling Network for Monopole Four Square Array antenna for Multi-beam Applications,” *Loughborough Antennas and Propagation Conference LAPC2013*, Loughborough, UK, November 2013.
- S. Salama, and K. Solbach, “Parasitic Elements Based Decoupling Technique for Monopole Four Square Array Antenna”, *European Microwave Conference EuMC2014*, Rome, Italy, October 2014.
- S. Salama, and K. Solbach, “Study of Mutual Coupling and Chassis modes Coupling through the Equivalent Circuit Modeling of Two Monopoles on a Small

Platform,” *Loughborough Antennas and Propagation Conference LAPC 2014*, Loughborough, UK, November 2014.

- S. Salama, and K. Solbach, “Eigenmodal Feed Based Decoupling Network for Two Ports MIMO and Diversity,” *Loughborough Antennas and Propagation Conference LAPC 2014*, Loughborough, UK, November 2014.
- S. Salama, “Antenna Design Challenges on Small Platforms”, ISBN: 978-3-8381-5141-0, *Suedwestdeutscher Verlag for Hochschulschriften, OmniScriptum GmbH & Co. KG*, Germany, 2015.
- S. Salama, “Design of a Rectangular Loop-Shape RF Coil for 7-Tesla Magnetic Resonance Imaging,” *Asia Pacific Microwave Conference APMC2017*, Kuala Lumpur, Malaysia, November 2017.
- S. Salama, “Reactive-Element Based Decoupling Network for a Two-Element MRI Phased Array”, *Journal of King Saud University-Engineering Sciences JKSU*, May 2018. (accepted)
- S. Salama, “Parasitic Element Based Decoupling Network for a Two-Element MRI Phased Array,” *2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology JEEIT2019*, Amman, Jordan, April 2019. (accepted)
- A. Abuelhaija and S. Salama, “Port Decoupling vs Array Elements Decoupling at 7-Tesla Magnetic Resonance Imaging”, *Journal of Magnetic Resonance*,. (submitted)

AWARDS

- Ministry of Higher Education Scholarship for B.Sc., Arab American University, Palestine, 2002-2006.
- Deutscher Akademischer Austausch Dienst (DAAD) Scholarship for M.Sc., Jordan University, Jordan, 2007-2009.
- Deutscher Akademischer Austausch Dienst (DAAD) Scholarship for PhD, Duisburg-Essen University, Germany, 2011-2015.

AREAS OF RESEARCH INTERESTS

- Characteristic Chassis Wavemodes.
- Coupling Element-Based Antenna Structure.
- MIMO Antenna Design.
- Beam-Forming Antenna Array Design.
- Mutual Coupling and Chassis Wavemodes Coupling

- Design of Decoupling and Matching Networks.
- Magnetic Resonance Imaging MRI (RF coil design)

MEMBERSHIP

- Jordan Engineers Association

LANGUAGES

- Arabic Language (mother tongue).
- English Language (very good).
- German Language (levels A1, A2).

REFEREES

- **Prof. Mohamed K. Abdelazeez**, Electrical Engineering Department, Jordan University, Amman, Jordan, abdelazeez@ieee.org
- **Prof. Dr.-Ing. Klaus Solbach**, High Frequency Technology Department (HFT), Duisburg-Essen University, Duisburg, Germany, klaus.solbach@uni-due.de
- **Dr. Nasser Hamad**, Electrical Engineering Department, American University of Ras Al Khaimah, Ras Al Khaimah, UAE, nasser.hamad@aurak.ae
- **Prof. Dr.-Ing. Thomas Kaiser**, Digital Signal Processing Department (DSP), Duisburg-Essen University, Duisburg, Germany, thomas.kaiser@uni-due.de