

Name and Academic Rank: Hilal M. El Misilmani, Assistant Professor, Full Time

Education: Degrees, Discipline, Institution and Date:

- Ph.D. of Engineering in Electrical and Computer Engineering, American University of Beirut, Lebanon, 2015
- Master of Engineering in Electrical and Computer Engineering, American University of Beirut, Lebanon, 2012
- Bachelor of Engineering in Communications and Electronics Engineering, Beirut Arab University, 2010

Academic Experience:

- Beirut Arab University, Electrical and Computer Engineering Department, Assistant Professor, Sept. 2015 – Present, Full Time
- American University of Beirut, Electrical and Computer Engineering Department, Research Associate, June 2015 – Sept. 2016, Full Time
- American University of Beirut, Electrical and Computer Engineering Department, Lecturer, Jan. 2016 – May 2016, and Jan. 2015 – May 2015, Part Time
- American University of Beirut, Electrical and Computer Engineering Department, Co-instructor, Sept. 2014 – Dec. 2014, and Sept. 2010 – Aug. 2012, Part Time
- American University of Beirut, Electrical and Computer Engineering Department, Research Assistant, Sept. 2010 – May. 2015, Part Time

Non-Academic Experience:

- Beirut Research and Innovation Center, Lebanon, Researcher, Sept. 2012 – Aug. 2014, Full Time
- Issa Holding, Business Development Consultant, Apr. 2016 – Aug. 2016, Full Time
- Dar Al-Handasah Consultants (Shair and Partners), Telecommunications Engineer, Aug. 2011 – Sept. 2012, Full Time
- G (Green Building Consulting Firm), Green Building Consultant, June 2011 – Aug. 2011, Full Time

Certifications or Professional Registrations:

- GSM Network Training Certificate, Ogero Telecom (May 2010)
- Common Channel Signaling (SS#7) Network Training Certificate, Ogero Telecom (Sept. 2009)
- Digital Microwave and GSM Network Training Certificate, Ogero Telecom (Sept. 2009)
- Cisco Certified Network Associate (CCNA) Certificate, Cisco Networking Academy (Oct. 2009)
- Digital Satellite Communication Training Certificate, Beirut Media Center (Sept. 2008)
- AVR Microcontroller Training Certificate, Beirut Arab University (Jan. 2008)
- Private courses on: Media Training, Public Speaking, History of Lebanon, Palestine, the Concept of State, Political Parties, United Nations, Contemporary Arab Thought, and Interfaith Dialogue (2012 – 2013)

Membership in Professional Organizations:

- Member of the IEEE AP/MTT/MAG Lebanon Chapter
- Member of the IEEE (Institute of Electrical and Electronic Engineers) (since 2006)
- Member of the Lebanese Order of Engineers (since 2011)

Honors and Awards:

- National Council for Scientific Research (CNRS) doctoral scholarship award (Sept. 2013 – May 2015)
- Lebanese Association for Scientific Research (LAsER) scholarship (Sept. 2013 – May 2015)
- Rafic Hariri Foundation Scholarship (Sept. 2005 – June 2010)
- The Association of Specialization and Scientific Guidance (SSG) Scholarship (Feb. 2006 – June 2010)

Service Activities:

Inside BAU:

- ABET Editor for the Communications and Electronics Engineering Program (Sept. 2017 – Present)
- Graduate studies coordinator for the Faculty of Engineering (Sept. 2017 – Present)
- Member of the Financial aid committee (Sept. 2016 – Sept. 2017)
- Member of the Course offering committee (Sept. 2016 – Sept. 2017)
- Member of the Job fair committee (Sept. 2016 – Sept. 2017)
- Participated in Urban Health and Wellbeing: Advancing Systems, Science and Technology Workshop, Apr. 26 – 27, 2017
- Member of the judging committee of BAU Engineering Projects Day for the academic year 2016 – 2017
- Representative speaker of the Faculty of Engineering in the BAU Open House for the graduate studies in the academic year 2017 – 2018
- Representative of the Faculty of Engineering in ERASMUS+ workshop (Oct. 2017)
- Participated in advisory committee meetings to earn FIBAA institutional accreditation at Beirut Arab University (2014)
- Participated in advisory committee meetings to earn ABET accreditation for CEE program at Beirut Arab University (2014)

Outside BAU

- Secretary of the IEEE AP/MTT/MAG Lebanon Chapter (Jan. 2015 – Jan. 2016)
- Scientific judge at the 18th Annual Science, Math, and Technology fair, American University of Beirut (April 2012)

Principal Publications and Presentations of the Last Five Years:

Journal Papers

1. **H. M. El Misilmani**, M. Y. Abou-Shahine, Y. Nasser, and K. Y. Kabalan, "Recent Advances on Radio-Frequency Design in Cognitive Radio," International Journal of Antennas and Propagation, vol. 2016, Article ID 9878475, 16 pages, 2016. doi:10.1155/2016/9878475
2. **H. M. El Misilmani**, K. Y. Kabalan, M. Abou Shahine, and M. Al-Husseini, "A Method of Moment Approach in Solving Boundary Value Problems," Journal of Electromagnetic Analysis and Applications, vol. 7, Issue 3, March 2015
3. **H. M. El Misilmani**, M. Al-Husseini, and K. Y. Kabalan, "Design of Slotted Waveguide Antennas with Low Sidelobes for High Power Microwave Applications," Progress in Electromagnetics Research C, vol. 56, 15-28, 2015
4. **H. M. El Misilmani**, M. Al-Husseini, and K. Y. Kabalan, "Improved Vlasov Antenna with Curved Cuts and Optimized Reflector Position and Shape," International Journal of Antennas and Propagations, vol. 2015, Article ID 193630, 12 pages, 2015
5. **H. M. El Misilmani**, M. Abou Shahine, M. Al-Husseini, and K. Y. Kabalan, "A Simplified Method of Moment (MoM) Approach to solving nth Order Linear Differential Equations," Int. Journal of Scientific & Engineering Research, Vol. 5, Issue 6, June 2014

6. **H. M. El Misilmani**, M. Al-Husseini, K. Y. Kabalan and A. El-Hajj, "Compact Circularly Polarized Multi-Band Antennas for RFID Applications," *International Journal of Antennas and Propagations*, April 2014

Conference Proceedings

1. **H. M. El Misilmani**, M. Al-Husseini, and K. Y. Kabalan, "Design Procedure of Two-Dimensional Circularly Polarized Slotted Waveguide Antenna Arrays," in the 2018 International Conference on High Performance Computing & Simulation (HPCS 2018), France 2018
2. A. Damaj, **H. M. El Misilmani**, and S. Abou Chahine, "Implantable Antennas for Biomedical Applications: An Overview on Alternative Antenna Design Methods and Challenges," in the 2018 International Conference on High Performance Computing & Simulation (HPCS 2018), France 2018
3. **H. M. El Misilmani** and A. M. El-Hajj, "Massive MIMO Design for 5G Networks: An Overview on Alternative Antenna Configurations and Channel Model Challenges," in the 2017 International Conference on High Performance Computing & Simulation (HPCS 2017), Italy 2017
4. **H. M. El Misilmani**, M. Al-Husseini, and K. Y. Kabalan, "Simple Design Procedure for 2D SWAs with Specified Sidelobe Levels and Inclined Coupling Slots," in the 4th Advanced Electromagnetic Symposium (AES 2016), Spain, July 2016
5. M. Al-Husseini, **H. M. El Misilmani**, K. Y. Kabalan, A. El-Hajj, and E. Nassar, "Simple Design Method for Dielectric-Filled Low-Sidelobe Slotted Waveguide Antennas," in the 4th Advanced Electromagnetic Symposium (AES 2016), Spain, July 2016
6. **H. M. El Misilmani**, M. Al-Husseini, and K. Y. Kabalan, "Design Procedure for 2D Slotted Waveguide Antenna with Controllable Sidelobe Level," in the IEEE International Symposium on Antennas and Propagation (APS), Canada, July 2015
7. M. Al-Husseini, **H. M. El Misilmani**, K. Y. Kabalan, A. El-Hajj, X. Pan, C. Christodoulou, "Controllable-Sidelobe Slotted Waveguide Antennas with Corrugations for Frequency Selectivity," in the IEEE International Symposium on Antennas and Propagation (APS), Canada, July 2015
8. **H. M. El Misilmani**, M. Al-Husseini, and K. Y. Kabalan, "Design Procedure for 2D Slotted Waveguide Antenna with Inclined Coupling Slots for Sidelobe Level Control," in the Progress in Electromagnetics Research Symposium (PIERS), Prague, July 2015
9. **H. M. El Misilmani**, K. Y. Kabalan M. Abou Shahine, and M. Al-Husseini, "A Method of Moment Approach in Solving Boundary Value Problems," in the First Irbid International Engineering Conference (IIEC), Jordan, October 2014
10. **H. M. El Misilmani**, M. Al-Husseini, K. Y. Kabalan and A. El-Hajj, "A Design Procedures for Slotted Waveguide Antennas with Specified Sidelobe Levels," in the High Performance Computing & Simulation Conference (HPCS), Italy, July 2014
11. **H. M. El Misilmani**, M. Al-Husseini, K. Y. Kabalan and A. El-Hajj, "Improved Antennas for High Power Microwave Applications," in the Lebanese Association for the Advancement of Science (LAAS), Lebanon, March 2014
12. **H. M. El Misilmani**, M. Al-Husseini, K. Y. Kabalan and A. El-Hajj, "Optimized Reflector Position for Vlasov Antennas," in the Progress in Electromagnetics Research Symposium (PIERS), Sweden, August 2013
13. **H. M. El Misilmani**, M. Al-Husseini, K. Y. Kabalan and A. El-Hajj, "Improved Vlasov Antenna with Curved Cuts for High Power Microwaves," in the High Performance Computing & Simulation Conference (HPCS), Helsinki, Finland, July 2013
14. **H. M. El Misilmani**, M. Al-Husseini, K. Y. Kabalan and A. El-Hajj, "A Simple Miniaturized Triple-band Antenna for WLAN/WiMAX Applications," in Progress In Electromagnetics Research Symposium (PIERS), Moscow, Russia, August 2012

Most Recent Professional Development Activities:

- Organizer of the ACME 2018 special session (HPCS 2018 conference), July 2018, Orléans, France
- Member of the international program committee of the ACME 2017 special session (HPCS 2017), July 2017, Genoa, Italy
- Organizer of the 3rd Middle East Conference on Antennas & Propagation (MECAP), Sept. 2016, Lebanon
- Participated in the ACME 2017 special session (HPCS 2017 conference), July, 2017, Genoa, Italy