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Dr. Mohamed Galal El-Mashed

Personal Information

Position: Lecturer, Dept. of Electronics and Communications Engineering,
Faculty of Electronic Engineering, Menoufia University, Egypt.

Date of birth: 1th January, 1987.

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Qualifications

- 1- B.Sc. in Electronic Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt, 2008.
- 2- M.Sc. in Communications Engineering, “**Signal Detection Enhancement for Ultra-Wide Band Radars (UWB Radars)**”, Faculty of Electronic Engineering, Menoufia University, Egypt, 2012.
- 3- Ph.D. in Communications Engineering, “**Enhancing the Performance of the Downlink Physical Layer for the Long Term Evolution-Advanced (LTE-A)**”, Faculty of Electronic Engineering, Menoufia University, Egypt, 2015.

Area of Research

Ultra-Wide Band (UWB) radar applications, radar signal processing and imaging, MIMO radar system, SAR imaging techniques, digital signal processing, advanced digital communication systems, wireless communication systems, WiMAX, LTE, LTE-A, massive MIMO systems, optical communication and FPGA implementation in communication systems.

Journal Publications

- [1] Mohamed G. El-Mashed, "Optimum Energy-Efficient for Multiuser Massive MIMO System Based Polynomial Precoder," Submitted to *IEEE Wireless Communications*, 2016.
- [2] Mohamed G. El-Mashed, "Massive MIMO System with Relay-Aided: How Many BS Antennas, Relays, Users and Transmit Power Do We Need?" Submitted to *IEEE Wireless Communications*, 2016.
- [3] Mohamed G. El-Mashed, "Hardware Problems in Advanced Communication Systems that Deploy Multi-Hop Transmission," Submitted to *IEEE Communications*, 2016.
- [4] Mohamed G. El-Mashed, "Outage Probability of Multi-Pair Massive Antenna Relaying in the Presence of Hardware Impairments," Submitted to *IEEE Journal on Selected Areas in Communications*, 2016.
- [5] Mohamed G. El-Mashed and S. El-Rabaie, "MIMO AF RSs Based OSTBCs for LTE-A Downlink Physical Layer Network," Submitted to *Springer, Telecommunication Systems Journal*, 2016.
- [6] Mohamed G. El-Mashed and S. El-Rabaie, "Advanced Relay Station for LTE-A Downlink Physical Layer", *Electronic Engineering Bulletin, Faculty of Electronic Engineering, Menoufia University, Egypt*, Jul. 2015.

- [7] Mohamed G. El-Mashed and S. El-Rabaie, "OSIC-Based SD MIMO Detection Algorithm for LTE-A Downlink Physical Layer," Proceedings in *Springer, Wireless Personal Communications Journal*, vol. 80, no. 2, pp. 751-768, Jan. 2015.
- [8] Mohamed G. El-Mashed and S. El-Rabaie, "Enhancing the Performance of Multicarrier Delay Diversity Modulation Systems Using Alamouti Codes," Proceedings in *Springer, Wireless Personal Communications Journal*, vol. 82, no. 3, pp. 1321-1335, Jan. 2015.
- [9] Mohamed G. El-Mashed and S. El-Rabaie, "Service Enhancement for User Equipments in LTE-A Downlink Physical Layer Network," Proceedings in *Springer, Wireless Personal Communications Journal*, vol. 83, no. 1, pp. 149-161, Feb. 2015. (Awarded)
- [10] Mohamed G. El-Mashed and S. El-Rabaie, "Signal Detection Enhancement in LTE-A Downlink Physical Layer Using OSIC-Based K -Best Algorithm," Proceedings in *Elsevier, Physical Communication journal*, vol. 14, pp. 24-31, Mar. 2015.
- [11] Mohamed G. El-Mashed and S. El-Rabaie, "Near Optimum OSIC-based ML Algorithm in a Quantized Space for LTE-A Downlink Physical Layer," Proceedings in *Elsevier, Digital Signal Processing journal*, vol. 40, pp. 250-257, May 2015. (Awarded)
- [12] Mohamed G. El-Mashed and S. El-Rabaie, "Application of Space-time Trellis Codes for Multicarrier Delay Diversity Modulation Systems," Proceedings in *IET Communications Journal*, vol. 8, no. 17, pp. 3029-3037, Nov. 2014.
- [13] Mohamed G. El-Mashed, M. I. Dessouky, M. El-kordy, F. Abd El-Samie, and O. Zahran, "Synthetic Aperture Radar Imaging with Fractional Fourier Transform and Channel Equalization," Proceedings in *Elsevier, Digital Signal Processing journal*, vol. 23, no. 1, pp. 151-175, Jan. 2013. (Awarded)

- [14] Mohamed G. El-Mashed, M. I. Dessouky, M. El-kordy, F. Abd El-Samie, and O. Zahran, "Target Image Enhancement for Radar Imaging using Fractional Fourier Transform," Proceedings in *Springer, Sensing and Imaging Journal: An International Journal*, vol. 13, no. 2, pp. 37-53, 2012.

Conference Publications

- [1] Mohamed G. El-Mashed, M. I. Dessouky, M. El-kordy, F. Abd El-Samie, and O. Zahran, "Chirp Modulated by Gaussian Pulse for Synthetic Aperture Radar Imaging," Proceedings of the 28th *National Radio Science Conference*, NRSC 2011, Egypt, pp. 139-148, 26-28 April, 2011. (Awarded)

Courses Taught

BSc Program of Science of Electronic Engineering:

- CCNA (Cisco Certified Network Associate).
- GSM (Global System for Mobile communications).
- CDMA (Code Division Multiple Access).
- Programmable Logic Controller (LG & Siemens).
- Microcontrollers.
- Network Planning.
- Satellite Communications.
- Mobile Communications.
- Microwave Engineering.
- Digital Signal Processing.
- Coding and Information Theory.
- Information Security System.
- Advanced Communication Systems.
- Optical Communication Systems.

MSc Program of Communication Engineering:

- Advanced Communication Systems
- Modern Radar and Sonar Systems

PhD Program of Communication Engineering:

- Performance Analysis of Advanced Communication Systems

Awards

- 1- Superior undergraduate student award from the Faculty of Electronic Engineering, Menoufia University, Egypt.
- 2- Academic excellence award from the Menoufia University, Egypt.
- 3- Certificate of Merit from the Association of Engineers in Egypt.
- 4- Certificate of experience in the field of network engineering from the Egyptian-Japanese company.
- 5- Award for research publication in Radio Conference, Egypt, 2011.
- 6- Research excellence award from Menoufia University in 2012 and 2016.

Experiences

- 1- Training at Medical centre for electronic equipments.
- 2- Training at JELECOM EGYPT (Egyptian Technical Training Center).
- 3- Participation in Egyptian Engineering Day (EED) organized by IEEE Egypt section.
- 4- Working at communication laboratory in faculty of electronic engineering which includes practical system:
 - Mobile system.
 - Antenna System.
 - CPLD & FPGA system.
 - Microprocessor.
 - Optical fiber system.
 - Radar system.

Computer Skills

- 1- Windows and Microsoft Office.
- 2- Internet and Network.
- 3- Matlab applications.
- 4- Programming language:
 - Assembly language for microprocessor and microcontroller.
 - VHDL language for CPLD and FPGA.

Projects

- 1- Ultrasonic Radar with mechanical motion.
- 2- LTE-A System.