Curriculum Vitae (CV)

Radwa A. Roshdy

Personal Information

Academic Rank:	**Assistant Professor**
Department:	**Electrical Engineering**
Specialization:	**Wireless Communications**
Position:	**Assistant Professor in Electrical Engineering dept.**
Web of Science:	AAH-2759-2020
Google Scholar:	yjJKsKhDAaQC
Research Gate:	Radwa Adel
ORCID Record:	0000-0002-0281-2008
Scopus ID:	57202158675
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Education

Degree	Discipline	Institution	Year
Ph.D.	Electronics and Communications Engineering	Faculty of Engineering – Zagazig university- Egypt.	2020
M.Sc.	Electronics and Communications Engineering	Faculty of Engineering – Zagazig university- Egypt.	2014
B.Sc.	Electronics and Communications Engineering	Faculty of Engineering – Zagazig university- Egypt.	2008

Academic Experience

Institution: Higher Technological Institute- 10th of Ramadan
Rank: **Assistant Professor**
Dates: from 2020 until now

Institution: Higher Technological Institute- 10th of Ramadan
Rank: **Assistant Lecturer**
Dates: from 2015 to 2020

Institution: Higher Technological Institute- 10th of Ramadan
Rank: **Teaching Assistant**
Dates: from 2008 to 2015

Research interests:

- Channel estimation
- Channel Coding
- 5G physical layer
- Mmwave propagation
- Reconfigurable intelligent surfaces
- visible light communication.

Publications

Journal Papers

1. **R. Roshdy,** M. Fouad, M. Aboul-Dahab**,** "Design and Implementation a New Security Hash Algorithm Based on MD5 and SHA-256," International Journal of Engineering Sciences and Emerging Technologies, Vol.6, Iss.1, pp. 29-36, August 2013.
2. M. A. Aboul-Dahab, M. M. Fouad, **R. A. Roshdy**, "Generalized Discrete Fourier Transform for FBMC Peak to Average Power Ratio Reduction". IEEE Access. 2019 Jun 6; 7:81730-40.
3. **R. A. Roshdy**, M. A. Aboul-Dahab, M. M. Fouad, "A modified interference approximation for improving preamble based channel estimation performance in FBMC system". International Journal of Computer Networks & Communications (IJCNC) Vol.12, No.1, January 2020.
4. MA. Salem, MA. Aboul-Dahab,S.M. Abd El-kader, and R. **A. Roshdy**, "Performance Improvement for the Single Carrier in FBMC Systems by PAPR Reduction," International journal of Computer Networks & Communications, vol. 14, no. 05, pp. 17–30, September2022.
5. **R. A. Roshdy**, A. I. Hussein, M. M. Mabrook and M. A. Salem, "A Complexity Efficient PAPR Reduction Scheme for FBMC based VLC Systems," Opto-electronics review, March 2023.

Conference Papers

1. M. A. Aboul-Dahab, M. M. Fouad, **R. A. Roshdy**, "A proposed preamble-based channel estimation method for FBMC in 5G wireless channels", In 2018 35th National Radio Science Conference (NRSC) 2018 Mar 20 (pp. 140-148).

Certifications & Professional Activities

- Exam systems and student assessment for colleges and institutes of higher education.
- Effective teaching and learning strategies for colleges and institutes of higher education.
- Certificate of attendance and presenter at National Radio Science Conference (NRSC) 2018.
- **PEER REVIEWER FOR ACADEMIC JOURNALS AND PUBLISHERS:**
  - IEEE Access, Institute of Electrical and Electronics Engineers Inc.
  - International Journal of Computer Networks & Communications (IJCNC), Academy and Industry Research Collaboration Center (AIRCC).
  - 2023 International Conference on Advances in Computing Research (ACR'23).

Teaching Experience:
Courses taught.

- Electric Circuits
- Advanced Programming
- System Analysis
- Communication Systems
- Analog and Digital Communications
- Antenna and Wave Propagation
- Electronic Lab
- Communications Lab
- Information Theory and Coding
- Analog Communications
- Digital Communications