

1. Name: Khaled Ramadan Mohamed, Teacher, Department of Communication and Computer Engineering, the Higher Institute of Engineering at El-Shorouk City

2. Degrees:

- B.S. (Comm. engineering) the Higher Institute of Engineering at El-Shorouk, Cairo, Egypt 2011
- M.S. (Comm. engineering) Menoufia University, Cairo, Egypt 2018
- Ph.D. (Comm. engineering) Menoufia University, Cairo, Egypt 2021

3. Years of Service on Faculty: 3

- 9/2021 - Present Teacher

4. Other Experience:

- 09/2021-date: Teacher, Department of Computer and Communication Engineering, The Higher Institute of Engineering at Al-Shorouk City, Cairo, Egypt

5. Consulting Activities (selected)

- None.

6. States in which registered:

- None.

7. Principal publications of last 5 years (selected):

- M. Elmahallawy, T. Luo and Khaled Ramadan, "Communication-Efficient Federated Learning for LEO Satellite Networks Integrated with HAPs using Hybrid NOMA-OFDM," in IEEE Journal on Selected Areas in Communications, doi: 10.1109/JSAC.2024.3365885, 2024.
- Khaled Ramadan, "On the use of Walsh Domain Equalizer for Performance Enhancement of MIMO-OFDM Communication Systems," in Telecommunication Systems Journal, Springer, <https://doi.org/10.1007/s11235-023-01091-5>, 2024.
- Khaled Ramadan, "Walsh transform-based non-linear equalization algorithm for enhancing the efficiency of MIMO-OFDM communication," the Wireless Networks Journal, Springer, D-22-00711R1, DOI : 10.1007/s11276-023-03440-3, 2023.
- Khaled Ramadan, "Enhanced MIMO-DCT-OFDM System Using Cosine Domain Equalizer," in the International Journal of Electronics, Taylor & Francis, doi.org/10.1080/00207217.2023.2235728, 2023.
- Khaled Ramadan, ElHalawany, B.M. & Elbakry, M.S. Performance improvement for DCO-OFDM and ACO-OFDM systems using symbol time compression. Telecommun Syst 84, 77–100 (2023). <https://doi.org/10.1007/s11235-023-01027-z>, 2023.
- Khaled Ramadan, M. Abdelhamed, and Mohamed S. ElBakry, " Nonlinear Equalization for Performance Enhancement of FBMC Systems Using Walsh Transform," in the IETE Journal of Research, Taylor & Francis, doi.org/10.1080/03772063.2023.2256296, 2023.
- Mohamed A. Abdel-Moneim, S. El-Rabaie, Fathi E. Abd El-Samie, Khaled Ramadan, Narmin Abdel-Salam, Khlil F. Ramadan "Efficient CNN-Based

Automatic Modulation classification in UWA Communication Systems Using Constellation Diagrams and Gabor Filtering," 2023 3rd International Conference on Electronic Engineering (ICEEM), MENouf-Egypt.

- Mohamed S. Elbakry, and Khaled Ramadan," A TIME-MIRRORING (TM) SCHEME FOR ICI MITIGATION IN TIME-VARYING CHANNEL FOR DIGITAL VIDEO BROADCASTING (DVB) SYSTEMS," Telecommunications and Radio Engineering, Begel House Inc., 10.1615/TelecomRadEng.2022037017 , vol. 82, no. 3, p. 1- 16, 2023.
- Khaled Ramadan, Moawad I. Dessouky, and Fathi E. Abd El-Samie, "Performance enhancement of OFDM systems with lower-complexity using DST based on successive interference cancellation," Digital Signal Processing, Elsevier, doi.org/10.1016/j.dsp.2020.102739, vol. 102, p. 102739, 2020.
- Khaled Ramadan, Ahmed S. Fiky, Moawad I. Dessouky, and Fathi E. Abd El-Samie, "Joint Low-Complexity Equalization and CFO Estimation and Compensation for UWA-OFDM Communication Systems Based on Discrete Sine Transform," Digital Signal Processing Journal, Elsevier, <https://doi.org/10.1016/j.dsp.2019.02.004>, vol. 09, pp. 142-149, 2019.
- Khaled Ramadan, Moawad I. Dessouky, and Fathi E. Abd El-Samie, "Modified OFDM Configurations with Equalization and CFO Compensation for Performance Enhancement of OFDM Communication Systems Using Symmetry of the Fourier Transform," AEU-International Journal of Electronics and Communications, Elsevier, <https://doi.org/10.1016/j.aeue.2020.153247>, vol. 126, p. 153247, 2020.
- V. Kumar, Khaled Ramadan, P. Kumar, Moawad I. Dessouky, and F. E. Abd-Elasmie, "Enhanced OFDM-NOMA for Next Generation Wireless Communication: A Study of PAPR Reduction and Sensitivity to CFO and Estimation Errors," AEU-International Journal of Electronics and Communications, 2019, <https://doi.org/10.1016/j.aeue.2019.01.009>, vol. 102, pp. 9-24, 2019.

8. Scientific and professional societies of which a member

- Egyptian Engineering syndicate

9. Honors and awards:

- None.

10. Institutional & professional service in last 5 years:

- None.

11. Professional Development Activities in the last 5 years:

- None.