

1. **Name: Salah Sayed Ibrahim Elagooz**, Professor and Head, Department of Communications and Computers Engineering, Higher Institute of Engineering, El-Shorouk Academy, Cairo, Egypt.
2. **Degrees:**
  - B.S. (communications engineering) Military Technical College, Cairo, Egypt, 1981.
  - M.S. (communications engineering) Military Technical College, Cairo, Egypt, 1987.
  - Ph.D. (communications engineering) GWU, Washington D.C., USA, 1993.
3. **Years of Service on Faculty: 31**
  - 9/2013 - Present Professor, and Head, Communications and Computers Engineering Department, Higher Institute of Engineering, El-Shorouk Academy, Cairo, Egypt.
  - 9/2010 - 8/2013 Professor, and Head, Communications Engineering Department, Giza Higher Institute of Engineering, Giza, Egypt.
  - 3/2010 - 8/2010 Professor, and Head Communications Engineering Department, Military Technical College, Cairo, Egypt.
  - 3/2000 - 1/2010 Associate Professor, Communications Engineering Department, Military Technical College, Cairo, Egypt.
  - 9/1993 - 3/2000 Assistant Professor, Communications Engineering Department, Military Technical College, Cairo, Egypt.
4. **Other Experience:**
  - 1995 - 2000 part time Member of the Requirements Division, which supervises the process of equipping the engineering departments in the MTC with the necessary laboratories and training aids for teaching and scientific research.
  - 2000 - 2005 Part-time Member of Postgraduate Affairs at MTC which manages postgraduate studies including Diplomas, Master of Science and Doctor of Science.
5. **Consulting Activities (selected)**
  - Participation in arbitration of some applied research and engineering projects in the field of electronics and communications engineering during the period of service in the armed forces (1981-2010)
6. **States in which registered:**
  - Alexandria, Virginia, USA (inactive).
  - Cairo, Egypt.
7. **Principal publications of last 5 years (selected):**
  - M. A. Abdel Hamid, E. Hassan, A. Zekry, S. Elagooz, M. Samir and F. abd El-samie, "Effects of Imperfect Channel Sensing and Estimation on the Performance of Cognitive Radio Systems," Wiley International Journal of Communication Systems, 2019.
  - M. Abdel Hamid, E. Hassan, A. Zekry, S. Elagooz, M. Samir and F. abd El-samie, "New Multiple Input Multiple Output based Filter Bank Multi-Carrier Structure for Cognitive Radio Networks," IET Communication, vol. 13, no. 10, pp. 1514- 1523, 2019.
  - S. A. Fathy, M. N. A. Ibrahim, S. S. Elagooz and H. M. El-Hennawy, "Efficient SLM Technique for PAPR Reduction in UFMC Systems," 2019 36th National Radio Science Conference (NRSC), Port Said, Egypt, 2019, pp. 118-125.
  - E. Abd-Elaty, S. El-Agooz and A. Zekry, "Compact Spread Spectrum LDACS Wavelet Based for DME Interference Mitigation," 2019 36th National Radio Science Conference (NRSC), Port Said, Egypt, 2019, pp. 259-265, doi: 10.1109/NRSC.2019.8734614.

- Adel Khaled, Sally Hassaneen, Salah El-Agooz, Heba Soliman, "Interference mitigation using antenna selection for the heterogeneous networks" *Bulletin of Electrical Engineering and Informatics*, Vol. 8, No. 4, December 2019. ISSN: 2302-9285.
- S. A. Fathy, M. Ibrahim, S. El-Agooz, and H. El-Hennawy, "Low-Complexity SLM PAPR Reduction Approach for UFMC Systems," *IEEE Access*, vol. 8, pp. 68021-68029, 2020.
- E. Abd-Elaty, A. Zekry, S. El-Agooz and A. M. Helaly, "Cognitive Radio Techniques for Utilizing the Primary L-Band Distance Measuring Equipment for Aeronautical Communications," in *IEEE Access*, vol. 8, pp. 124812-124823, 2020, doi: 10.1109/ACCESS.2020.3007741.
- Adel Khaled, Sally Hassaneen, Salah El-Agooz, Heba Soliman, "Small Cell Network Densification using a New Space-Time Block Code" *PORT-SAID ENGINEERING RESEARCH JOURNAL Faculty of Engineering - Port Said University*, Volume 24, No. 1, March 2020 pp: 102:107.
- E. Abd-Elaty E, A. Zekry, El-Agooz S, Helaly A. M. Nested code division multiple access for distance measuring equipment interference mitigation in L-band digital aeronautical communication system. *Int J. Communication Syst.* 2021.
- Khalil M. ElKhamisy, S. El-Rabaie, Salah S. Elagooz, and HamdyAbdElhamid” The effect of different surface grating shapes on thin film solar cell efficiency” 2019 International Conference on Innovative Trends in Computer Engineering, Aswan, pp. 297-300, 2- 4 February 2019. <https://doi.org/10.1109/ITCE.2019.8646471>.
- ElKhamisy, K., Abdelhamid, H., Elagooz, S. et al. The effect of different surface plasmonpolariton shapes on thin-film solar cell efficiency. *J Comput. Electron* 20, 1807–1814 (2021). <https://doi.org/10.1007/s10825-021-01729-0>.
- ElKhamisy, K., Abdelhamid, H., Elagooz, S. et al. The efficiency of silicon thin film solar cell: impact of temperature with different surface shapes. *Opt. Quant Electron* 54, 49 (2022). <https://doi.org/10.1007/s11082-021-03433-6>.
- Khalil ElKhamisy, HamdyAbdElhamid, Salah Elagooz, and El-Sayed M. El-Rabaie” The Effects of surface plasmonpolariton on Silicon Thin Film Solar Cell Array” International Japan-Africa Conference on Electronics, Communications, and Computations (JAC-ECC 2021), Alexandria Egypt, pp. 65-68, 13-14 December 2021. <https://doi.org/10.1109/JAC-ECC54461.2021.9691446>.
- Sabry, E.S.; Elagooz, S.; El-Samie, F.E.A.; El-Shafai, W.; El-Bahnasawy, N.A.; El-Banby, G.; Soliman, N.F.; Sengan, S.; Ramadan, R.A. "Sketch-Based Retrieval Approach Using Artificial Intelligence Algorithms for Deep Vision Feature Extraction", *Axioms* 2022, 11, 663. <https://doi.org/10.3390/axioms11120663>.
- Sabry, E.S., Elagooz, S.S., El-Samie, F.E.A. et al. "Evaluation of feature extraction methods for different types of images", *J Opt* (2023). <https://doi.org/10.1007/s12596-022-01024-6>.
- E. S. Sabry *et al.*, "Image Retrieval using Convolutional Autoencoder, InfoGAN, and Vision Transformer Unsupervised Models," in *IEEE Access*, vol.11, pp. 20445-20477, 2023, <https://doi.org/10.1109/ACCESS.2023.3241858>.
- Sabry, E.S.; Elagooz, S.; El-Samie, F.E.A.; El-Bahnasawy, N.A.; El-Banby, G. "SIFT and ORB performance assessment for object identification over different test cases", *J Opt* (2023). <https://doi.org/10.1007/s12596-023-01170-5>.

## 8. Scientific and professional societies of which a member

- Egyptian Electrical Engineering Syndicate.
- Egyptian Society of Engineers.

## 9. Honors and awards:

- Armed Forces Good Service Medal 2010.

## 10. Institutional & professional service in last 5 years: ----

## 11. Professional Development Activities in the last 5 years: ----