

1. Name: Ahmed Hussain Elmetwaly Abdelgalil, Assistant Professor, Department of Electrical Power and Machines Engineering, Higher Institute of Engineering, Elshorouk Academy.

2. Degrees:

- B.S. (Electrical Power and Machines Engineering) Higher Institute of Engineering, Elshorouk Academy, Elshorouk City, Cairo, Egypt. 2008
- M.S. (Electrical Power and Machines Engineering) Portsaid University, Portsaid, Egypt. 2015
- Ph.D. (Electrical Power and Machines Engineering) Portsaid University, Cairo, Egypt. 2020

3. Years of Service on Faculty: 15

- 08/2020 - present Assistant Professor.

4. Other Experience:

- 08/2022 – 08/2024: Participation with the Egyptian Chinese Collage for Applied Technology (ECCAT) as a joint supervision of graduation projects in the field of Robotics design and implementation.
- 09/2021 – 06/2024: Training many faculty members and teaching assistant on the quality insurance platforms.

5. Consulting Activities (selected)

- Design and supervision of distribution system and light current systems at Riviera, Giza Governorate (2018-2022).
- Design and supervision of distribution system and light current systems at Hussain Rady Language School, Giza Governorate (2017-2019).

6. States in which registered:

- Cairo, Egypt.

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

- H. Elmetwaly, A. A. Eldesouky and A. A. Sallam, "An Adaptive D-FACTS for Power Quality Enhancement in an Isolated Microgrid," in IEEE Access, vol. 8, pp. 57923-57942, 2020, doi: 10.1109/ACCESS.2020.2981444.
- Ahmed Hussain Elmetwaly, Abdelazeem Abdallah Abdelsalam, Azza Ahmed Eldessouky, Abdelhay Ahmed Sallam, Detection and Identification of PQ Disturbances Using S-Transform and Artificial Intelligent Technique, American Journal of Electrical Power and Energy Systems. Vol. 4, No. 1, 2015, pp. 1-9. doi: 10.11648/j.epes.20150401.11
- A.H. Elmetwaly, A. A. Eldesouky and A. A. Sallam, " Energy Management Based on Hierarchical Structure of an Isolated Microgrid Using Grasshoppers Optimization Algorithm" International Journal of Engineering and Information Systems (IJEAIS). Vol. 3 Issue 10, October – 2019, Pages: 27-39
- Al-Gabalawy, M., Elmetwaly, A. H., Younis, R. A., & Omar, A. I. (2022). Temperature prediction for electric vehicles of permanent magnet synchronous motor using robust machine learning tools. Journal of Ambient Intelligence and Humanized Computing, 1-18.
- Elmetwaly, A. H., ElDesouky, A. A., Omar, A. I., & Saad, M. A. (2022). Operation control, energy management, and power quality enhancement for a cluster of isolated microgrids. Ain Shams Engineering Journal, 13(5), 101737.
- Sindi, Hatem F., Sultan Alghamdi, Muhyaddin Rawa, Ahmed I. Omar, and Ahmed Hussain Elmetwaly. "Robust control of adaptive power quality compensator in Multi-Microgrids for power quality enhancement using puzzle optimization algorithm." Ain Shams Engineering Journal (2022): 102047.

- Elmetwaly, A.H., Younis, R.A., Abdelsalam, A.A., Omar, A.I., Mahmoud, M.M., Alsaif, F., El-Shahat, A. and Saad, M.A., 2023. Modeling, Simulation, and Experimental Validation of a Novel MPPT for Hybrid Renewable Sources Integrated with UPQC: An Application of Jellyfish Search Optimizer. Sustainability, 15(6), p.5209.

8. Scientific and professional societies of which a member

- Egyptian Engineers Syndicate, and Egyptian Society of Engineers.

9. Honors and awards:

10. Institutional & professional service in last 5 years:

- Quality Coordinator of the Department of Electrical power and machines Engineering, Higher Institute of Engineering, Elshorouk Academy (2020 - present).

11. Professional Development Activities in the last 5 years:

- Attending many meetings, events, and conferences related to the field of Electrical power and machines at the MEPCON (2020 – present).
- Attending many trainings in the field of education quality (Specification of programs and courses and evaluation of learning outcomes for colleges and institutes of higher education - Self-evaluation of colleges and institutes of higher education - Preparing Course Specifications) at the National Authority for Quality Assurance and Accreditation of Education (NAQAA), Cairo, Egypt (2022 – 2023) and the administrative field (Leadership skills, and Credit Hours System) at Developing the Capabilities of Faculty Members and Leaders Center, Cairo University, Giza, Egypt (2021 – 2022).