

1. Name: Abdelwahab Hassan Abdelwahab Elesawy, Associate Professor, Department of Electrical Power and Machine Engineering, Faculty of Engineering Tanta University, and Higher Institute of Engineering, Elshorouk Academy.

2. Degrees:

- B.S. (Electrical Power and Machine Engineering) Faculty of Engineering Tanta University, Egypt. 2001
- M.S. ((Electrical Power and Machine Engineering) Faculty of Engineering Tanta University, Egypt. 2006
- Ph.D. (Electrical Power and Machine Engineering) Faculty of Engineering Tanta University, Egypt. 2012

3. Years of Service on Faculty: 23

- 03/2001 - present Associate Professor.

4. Other Experience:

5. Consulting Activities (selected)

- 1- Full supervision of the electrical work of the psychiatric building at Tanta University Hospitals
- 2- Designing the electrical works for the central restaurant in the college complex in Cyber Bay, Tanta University
- 3- Design of electrical works for the semi-Olympic swimming pool for the Faculty of Physical Education, Tanta University
- 4- Full supervision of the electrical work for the semi-Olympic swimming pool of the Faculty of Physical Education, Tanta University
- 5- Design of electrical works for the industrial products annex building at the Faculty of Agriculture, Tanta University
- 6- Designing electrical works to restore the Chemistry Building at the Faculty of Science, Tanta University
- 7- Design of 1 elevator for the dialysis unit at Al-Hamoul Hospital in Kafr El-Sheikh
- 8- Design and supervision of the supply and installation of two elevators at the Faculty of Pharmacy, Tanta University
- 9- Submitting a certificate of validity for electrical connections to Tanta Oils, Soaps and Mineral Water Company
- 10- Designing electrical works to develop, restore and raise the building of the Health Technical Institute in Tanta

6. States in which registered:

- Cairo, Egypt.

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

- [1] Ahmed E. ElGebaly, Abd El-Wahab Hassan, and Mohamed K. El-Nemr "Reactive Power Compensation by Multilevel Inverter STATCOM for Railways Power Grid" 2019 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering (EIconRus) January 28-31, 2019.

- [2] Esraa F. Shaaban, **Abd El-Wahab Hassan**, and Diaa-Eldin A. Mansour "Using SMES for Voltage Stabilization of PMSG Based Wind Energy System" 2019 IEEE Conference on Power Electronics and Renewable Energy (CPERE), Aswan, Egypt, from 23-25 October 2019, pp. 181-185.
- [3] Mohamed G. Hussien and **Abd El-Wahab Hassan** "Mathematical Analysis of the Small Signal Model for Voltage-Source Inverter in SPMSM Drive Systems" 21st International Middle East Power Systems Conf., MEPCON'19 Tanta University, Cairo, Egypt, December 17-19-2019.
- [4] Dina M. Barakat, **Abd El-Wahab Hassan**, and Gamal E. M. Ali " Maximum Power Point Tracking Based MultiLevel Inverter for Grid Connected PV Systems"International Journal of Scientific & Engineering Research Volume 12, Issue 1, January-2021 ISSN 2229-5518 pp. 451-457.
- [5] Nancy Riad, Wagdy Anis , Ahmed Elkassas and Abd El-Wahab Hassan "Three-Phase Multilevel Inverter Using Selective Harmonic Elimination with Marine Predator Algorithm" Electronics 10.4 (2021): 374.
- [6] Mohamed G. Hussien, Zakaria M. Salem Elbarbary and **Abd El-Wahab Hassan** "High-Performance Sensorless Operation of Motor-Generator Set With an Improved Torque-Ripple Minimization Strategy" Frontiers in Energy Research, May 2022, volume 10, pp 1-10
- [7] Omar E. M. Youssef, Mohamed G. Hussien, and **Abd El-Wahab Hassan**, "A new simplified sensorless direct stator field-oriented control of induction motor drives" Frontiers in Energy Research, September 2022 pp 1-8
- [8] Neeraj Priyadarshi, Mahajan Sagar Bhaskarm, Mohamed G. Hussien, Baseem Khan, and **Abd El-Wahab Hassan**, "An experimental realization of improved grid integrated multilevel inverter based PV systems with MPPT" IET Renewable Power Generation, pp 1-13, 2022
- [9] Mahmoud F. Elmorshedy , Kotb M. Kotb , Mohamed Kamal El-Nemr , and **Abd El-Wahab Hassan**, "Field-Oriented Control for PMSM in Electric Vehicles Based on 7-level CHB Multilevel Inverter" 23rd International Middle East Power Systems Conf., MEPCON'22 Kafrelshiekh University, Egypt 13-15 December 2022.
- [10] Omar E. M. Youssef, Mohamed G. Hussien, and **Abd El-Wahab Hassan**, "An Advanced Control Performance of a Sophisticated Stand-Alone Wind-Driven DFIG System"International Transactions on Electrical Energy Systems Volume 2023, Article ID 5541932, 11 pages <https://doi.org/10.1155/2023/5541932>.
- [11] Omar E. M. Youssef, Mohamed G. Hussien, and **Abd El-Wahab Hassan**, "A Robust Regenerative-Braking Control of Induction Motors forEVs Applications" International Transactions on Electrical Energy Systems Volume 2024, Article ID 5526545, 12 pages <https://doi.org/10.1155/2024/5526545>.
- [12] Ahmed M. Hassan, **Abd El-Wahab Hassan**, Z. M. S. Elbarbary, Saad F. Al-Gahtani, Ahmed I. Omar, Mohamed Eladly Metwally "MPPT control of a solar pumping system based five-phase impedance source inverter fed induction motor" PLOS ONE <https://doi.org/10.1371/journal.pone.0295365> January 18, 2024, 24 pages

8. Scientific and professional societies of which a member

9. Honors and awards:

10. Institutional & professional service in last 5 years:

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11. Professional Development Activities in the last 5 years: