

Curriculum vitae

Personal information



- Name: Mohamed Ibrahim Abd Elwanis
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Mohamed_eng2@yahoo.com
- Date of birth : 26 / 2 /1980
- Place of birth : abou mandor, kafr elshikh
- ID NO: 1501234
- Military service : not applied
- Nationality :Egyptian
- Martial Status : Marred
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Education

- PHD degree, AL Azhar University Faculty of Engineering, in "Control of Synchronous Motor in Water Pumping Applications", March, 2011
- M. Sc degree, AL Azhar University Faculty of Engineering, in ‘Analysis and Control of A Wind Energy Driven Self Excited Reluctance Generator’’,2008
- Degree: Bachelor Degree of Electric Engineering.
- Department: Electric Power & Machine.
- Date of Graduation: May 2003.
- Grade of Graduation: Very Good.
- Graduation Project: PC Control of machine.
- Grade of Project: Excellent.
- University: Al Azhar.

Work in fields

- August 2021– present: Head of Physics and Engineering Mathematics Department, Faculty of Engineering, Kafrelsheikh University, Egypt
- July 2020 till now, associate professor at Electrical power and machine department- Faculty of engineering- Kafrelsheikh University.
- July 2011 till July 2020, assistant professor at Electrical power and machine department- Faculty of engineering- Kafrelsheikh University.
- January 2008 till July 2011, assistant lecturer at power and machine department- Faculty of engineering- Kafrelsheikh University.

- 2004 till January 2008, engineer in Mechanical and Electrical Research Institute of National Water Research Center

Training

- mahmoudia power station 2002
- Power Factor improvement with reduce Harmonic content produce by Loads (Engineering society 2007)
- Measurement device and sensors (Engineering society 2007)
- PLC Course in (RCTWS 2007)
- 12- training courses in faculty and leadership development centre (FLDC)

Knowledge

- Lecturer to electrical machines, power electronics, electrical testing, Electrical circuits and electrical drives.
- Tester in ICTP project.
- Organizer about the faculty in AHELO project.
- Supervisor to student graduation projects
- Supervisor to the KFS university projects (design and Implementation of electrical works)
- Good Knowledge of Computer Science
- Good Knowledge of Electrical and Electronic Devices of Measurements.
- Good Knowledge of low voltage panels.
- Very Good Knowledge of electrical building design.
- Very Good Knowledge of PLC programing and Installations.
- Very Good Knowledge of motor control & maintenance.
- Very Good Knowledge of VSD.
- Good Knowledge of using power quality analyzers.
- Good Knowledge of monitoring systems.
- Very Good Knowledge of Electrical Machines.
- Very Good Knowledge of Electrical and Electronic Transducers.
- Good knowledge of solar cells systems.
- Good knowledge of calibration of water pumping systems.
- Good knowledge of international and local beds.
- Reviewer of the electrical engineering journal.

Computer skills

- Very good experience in personal computer hardware.
- Good Knowledge of Computer Programming Languages.
- Very Good skills in Matlab programming.
- Good skills in AutoCAD.
- Very good skills with dealing with operating systems (Dos , Windows 2007 , Windows 98 & winxp).
- Very good skills with dealing with Microsoft office programs.
- Very good skills internet using.

Language

- Arabic: Mother Tongue.
- English: Very good.

Paper Publication

- [1] **Mohamed. I. Abd-Elwanis**, Fathy M. El-lithy, M.A. Younes “Wind-Electric Energy Conversion Using Reluctance Machine”, International conference Sustainable Energy, ICSE 07, Egypt, 2007
- [2] **Mohamed. I. Abd-Elwanis**, R. A. El-Sehiemy, A. B. kotb and M. Elwan “Synchronous Motor Design using Particle Swarm Optimization Technique”, MEPCON`10, Egypt, Des. 19-21, 2010
- [3] **Mohamed I. Abd-Elwanis**, Ragab A. El-Sehiemy “Operation Performance of Variable Speed Induction Synchronous Motor”, INFOMESR, WCEEENG’14, Egypt, Dec. 23-25, 2014.
- [4] **Mohamed I. Abd-Elwanis**, F. Selim, Ragab A. El-Sehiemy “An efficient sensorless slip dependent thermal motor protection schemes applied to submersible pumps”, INFOMESR, WCEEENG’14, Egypt, Dec. 23-25, 2014.
- [5] **Mohamed I. Abd-Elwanis**, F. Selim, Ragab A. El-Sehiemy “An efficient sensorless slip dependent thermal motor protection schemes applied to submersible pumps”, International Journal of Engineering Research in Africa Vol. 14 (2015) pp 75-86
- [6] **Mohamed I. Abd-Elwanis**, F. Selim, " A Sensorless Controller of Submersible Motors Fed From Photovoltaic System " , 17th International Middle East Power Systems Conference, Mansoura University, Egypt, December 15-17, 2015
- [7] **Mohamed I. Abd-Elwanis**, F. Selim, " A Sensorless Six-Phase Induction Motor Driving a Centrifugal Pump", 17th International Middle East Power Systems Conference, Menoufia University, Egypt, December 19-21, 2017, pp. 242-247
- [8] **Abdelwanis MI**, El-Sehiemy RA. A "Fuzzy-Based Controller of a Modified Six-Phase Induction Motor Driving a Pumping System", Iranian Journal of Science and Technology, Transactions of Electrical Engineering. 2019 Mar 14;43(1):153-165.
- [9] F. Selim, **Mohamed I. Abdelwanis.**, "Advanced Low-Cost Smart Power Saving System For Public Buildings", Proceedings of the 11th ICEENG Conference, 3-5 April, 17-PES, 2018
- [10] **Mohamed I. Abdelwanis**, Ragab A. El-Sehiemy, "Performance enhancement of split-phase induction motor by using fuzzy-based PID controller, Journal of ELECTRICAL ENGINEERING, VOL 70 (2019), NO2, 103–112, DOI: 10.2478/jee-2019-0016.
- [11] **M. I. Abdelwanis** and F. Selim, "Optimal Operation of Synchronous Motor Using Particle Swarm Optimization and Jaya Techniques," 2019 21st International Middle East Power Systems Conference (MEPCON), Cairo, Egypt, 2019, pp. 41-46.
- [12] F. Selim and **M. I. Abdelwanis**, " A Newly On-Time Following Up Electrical Earthing System Technology," 2019 21st International Middle East Power Systems Conference (MEPCON), Cairo, Egypt, 2019, pp. 177-182.
- [13] **M. I. Abdelwanis**, Amlak Abaza, Ragab A. El-Sehiemy, Mohamed N. Ibrahim and Hegazy Rezk, " Parameter Estimation of Electric Power Transformers Using Coyote Optimization Algorithm with Experimental Verification," IEEE Access, vol 8, pp. 50036-50044, 2020.
- [14] **M. I. Abdelwanis**, Sehiemy RA, Hamida MA. "Hybrid optimization algorithm for parameter estimation of poly-phase induction motors with experimental verification". Energy and AI. 2021 Sep 1;5:100083.

