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يعمل في الجامعة: منذ 2026

الحالة الاجتماعية: متزوج

Prof. Mohamed Ezzat Abdelrahman Abdelghani is a professor in Electrical Power Systems. Currently, he is the Head of Department of Electrical and Computer Engineering (DECE), College of Engineering and Architecture (CEA), University of Nizwa. His research interests are in power systems analysis, planning, protection, operation and control. Also, in renewable energy sources integration and Energy management.

المؤهلات الأكاديمية

Professor degree in Electrical Power systems, Ain Shams University, Egypt, 2025

Associate professor in Electrical Power Systems , Ain Shams University, Egypt , 2020

Ph.D. degree in Electrical Engineering, Ain Shams University, Egypt, 2012, Applications of Phasor Measurement Units in Power Systems Protection

M.Sc. Degree in Electrical Engineering, Ain Shams University, Egypt, 2007, Protection Strategy of Distributed Generation

B.Sc. Degree in Electrical Power Engineering, Ain Shams University, Egypt, 2001

أنشطة التدريس

Electrical Circuits Analysis

Electrical transmission Systems

Power Systems Analysis

Advanced Power Systems
Planning of Electrical Systems
Power Systems Protection
Fundamentals of Photovoltaics
Advanced Photovoltaic Systems

الأنشطة البحثية
- الاهتمامات البحثية -

Power Systems planning
Operation and Control of Power Systems
Renewable Energy Resources integration
Smart grids

العرض في المؤتمرات -

Effect of D-STATCOMs Optimal Installment on Voltage Stability Enhancement and Total Energy Saving Cost Considering Load Growth Factor Using WHO, 2024 IEEE International Conference on Environment and Electrical Engineering, Rome, Italy, 17/06/2024

Novel Time-Domain Modeling Approaches of Electric Arc Furnace Using Enhanced Cassie-Mayr and ARMAX Models, MEPCON 2023, Mansoura, Egypt, 19/12/2023

Protecting doubly fed induction generator`s converter using a filter based TCR, 2020 IEEE International Conference on Environment and Electrical Engineering, Madrid, Spain, 09/06/2020

Reliability Enhancement in Distribution Systems Through Distributed Generator and Capacitor Allocation Using Flower Pollination Algorithm, MEPCON 2019, Tanta, Egypt, 17/12/2019

Performance comparison of classification methods for line outage detection, MEPCON, Cairo, Egypt, 27/12/2016

Line outage detection using support vector machine (SVM) based on the phasor measurement units (PMUs) technology, 2012 IEEE General Meeting, USA, 22/07/2012

Fault location techniques for transmission lines using phasor measurement units (PMUs): A new contribution, 2011 IEEE General Meeting, USA, 26/07/2011

المنشورات -

مقال:

[Review of Transactive Energy Market Models and Their Possible Financial Impact on The Utility](#), 2026 .1
Ahmed M Abdulmohsen, Mohamed Ezzat, Wessam El-baz, Walid A Omran, Mohamed Abdel-Rahman

[Performance Enhancement of Interfacing Controllers for Grid Connected Wind Turbine](#), 2026 .2
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[Enhancement of Power Quality in Industrial Distribution Systems using Photovoltaic Distributed Generation](#), 2026 .3
Aya Medhat, Amr Magdy, Mohamed Ezzat

[Solid oxide fuel cell simulation model tuning using operating conditions dependent](#) 2026 .4

- [optimization techniques](#), Haya Hesham, Mohamed Abdel Rahman, Ghada Bassioni, Rania A Swief, Mohamed Ezzat, Sherif Helmy, Nourhan M Elbehairy
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- [Hosting capacity maximization by optimal planning of active and reactive power compensators, voltage regulators, and energy storage units in a rural Egyptian power system](#), 2025 .7
Ahmed M Mahmoud, Mohamed Ezzat, Shady HE Abdel Aleem, Almoataz Y Abdelaziz
- [Integrated laboratory workflow for proton exchange membrane fuel cell fabrication and testing](#), 2025 .8
Haya Hesham, Mohamed Abdel Rahman, Ghada Bassioni, Rania A Swief, Mohamed Ezzat, Sherif Helmy, Nourhan M Elbehairy
- [Hybrid Siting and sizing of distributed generators and shunt capacitors with system reconfiguration using wild horse optimizer](#), 2024 .9
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- [Multiagent based transactive energy market model](#), 2024 .11
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Omran, Wessam El-baz, Mohamed Abdel-Rahman, Mohamed Ezzat
- [Effect of D-STATCOMs Optimal Installment on Voltage Stability Enhancement and Total Energy Saving Cost Considering Load Growth Factor Using WHO](#), 2024 .12
Mirna Fouad Ali, Eman Beshr, Almoataz Y Abdelaziz, Mohamed Ezzat
- [EVCS Allocation and DG Penetration with System Reconfiguration from Reliability Point of View](#), 2024 .13
IA Sultan, Rania A Swief, M Ezzat, TS Abdel-Salam
- [Simulation of Solid-Oxide Fuel Cell Connected to Three-Phase Electrical Power System](#), 2024 .14
Haya Hesham, Mohamed Abdel Rahman, Ghada Bassioni, Rania A Swief, Sherif Helmy, Mohamed Ezzat
- [Manta ray foraging optimization algorithm-based load frequency control for hybrid modern power systems](#), 2023 .15
Mohamed A Sobhy, Hany M Hasaniien, Almoataz Y Abdelaziz, Mohamed Ezzat
- [Adaptive Protection Scheme for Overcurrent and Directional Overcurrent Relays In Distribution Networks with Distributed Generation](#), 2023 .16
Mona K Elmahgoub, Mohamed Ezzat, Amr Magdy
- [Industrial demand adaptation to renewable resources](#), 2023 .17
Ahmed M Abdulmohsen, Walid A 2023 .17
Omran, Wessam El-Baz, Mohamed Abdel-Rahman, Mohamed Ezzat
- [Enhancing Power System Frequency Stability Considering High RESs Penetration Using Virtual Inertia](#), 2023 .18
Sara Hossam Eldeen Mostafa, Rania Swief, Mohamed Ezzat
- [Novel Time-Domain Modeling Approaches of Electric Arc Furnace Using Enhanced Cassie-Mayr and ARMAX Models](#), 2023 .19
Hazem Hani, Mohamed A Abdel-Rahman, M Ezzat, Mohamed Zakaria Kamh
- [Time domain analysis and parameter tuning of electric arc furnace using cassie-mayr model](#), 2022 .20
Hazem Hani, Mohamed A Abdel-Rahman, M Ezzat, Mohamed Zakaria Kamh

الخبرة الإدارية

Head of Department - Department of Electrical and Computer Engineering, University of
Nizwa – الآن: 2026

Program Coordinator - Electrical Power Department, Faculty of Engineering, Ain
Shams University :2026 - 2018

الأنشطة الاستشارية

Electrical and light current consultant, Engineering Consultancy Center, Faculty of Engineering -
Ain Shams University, 2016- 2026

العضوية في الهيئات المهنية

Egyptian Engineering Syndicate :الآن-2001

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