

	Contact Information				
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	SCOPUS Scopus Author ID: 57195772896				
Education/ Academic qualifications (start with your most recent education first)					
Year	Year School / University	Specialization	Degree		
2022	Faculty of Engineering, Mansoura University	Electrical Engineering	PhD		
2017	Faculty of Engineering, Mansoura University	Electrical Engineering	MSc		
2012	Faculty of Engineering, Mansoura University	Electrical Engineering	BSc		
Academic Employment History (start with your most recent education first)					
From:	To:	University / Organization	Title of Position		
2022	Present	Faculty of Engineering, Horus University	Lecturer		
2015	2022	Faculty of Engineering, Mansoura University	Teaching Assistant		
2012	2013	Nile High Institute for Engineering and Technology, Mansoura, Egypt	Teaching Assistant		
Teaching Experience (Courses, Language, Higher Education Only)					
Teaching courses <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> ▪ MatLab ▪ Control system ▪ Artificial Intelligence ▪ C# ▪ C ▪ Industrial Engineering </td> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> ▪ HVDC system ▪ Machine Learning ▪ Python ▪ Visual Basic ▪ Smart grid ▪ Neural Network </td> </tr> </table>				<ul style="list-style-type: none"> ▪ MatLab ▪ Control system ▪ Artificial Intelligence ▪ C# ▪ C ▪ Industrial Engineering 	<ul style="list-style-type: none"> ▪ HVDC system ▪ Machine Learning ▪ Python ▪ Visual Basic ▪ Smart grid ▪ Neural Network
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I do hereby declare that the information furnished above is true to the best of my knowledge .

Name:

Signature:

- Decision support system
- Power Electronics
- Electrical Circuits
- Electrical Machines & Transformers
- Data Mining
- Principles of Electrical Engineering
- Electrical Materials
- Electrical Power

Languages

- Arabic: Mother Language
- English: Excellent (TOEFL IBT)

Publications:

Identify type of publication: book, refereed article, book chapter, journal article, non-refereed paper, major report, technical reports, research funds/grants

- [1] **Yara A. Sultan**, Sahar S. Kaddah, Mostafa A. Elhosseini “Enhancing the performance of smart grid using model predictive control” Vol. 42 - Issue 1, Mansoura Engineering Journal. March 2017.
- [2] **Yara A. Sultan**, Sahar S. Kaddah, Mostafa A. Elhosseini “Enhancing smart grid transient performance using storage device-based MPC controller” Vol. 11 - Issue 10, IET Renewable Power Generation. June 2017.
- [3] **Yara A. Sultan**, Sahar S. Kaddah, Abdelfattah A. Eladl “VSC-HVDC System-based on Model Predictive Control Integrated with Offshore Wind Farms” Vol. 15 - Issue 6, IET Renewable Power Generation. February 2021.
- [4] **Yara A. Sultan**, Abdelfattah A. Eladl, Sahar S. Kaddah, Mohammad A. Abido, Mohamed A. Hassan “Stability Enhancement of Interconnected VSC-HVDC System Considering Efficient MPC-based SMES” Vol.48 – Issue 5, Arabian Journal for Science and Engineering (AJSE). 2023
- [5] **Yara A. Sultan**, Samah A. Gamel “Winds of Power: Data Analysis for the Relationship between Wind Speed, Gust, and Power Output” Vol. 7- Issue 5, Journal of Engineering Research. 2023
- [6] **Yara A. Sultan**, Samah A. Gamel “Enhancing Diagnosis Prediction in Power Transformers using a Combination of SMOTE and DNN” IEEE Access “Under Publications”
- [7] **Yara A. Sultan**, Sahar S. Kaddah, Abdelfattah A. Eladl “Artificial Neural Network-based PI control of battery energy storage system connected with MMC-HVDC system” 24th International Middle East Power Systems Conference (MEPCON 2023). “Under Publications”
- [8] **Yara A. Sultan**, Zainab H. Ali, Nora El-Rashidy “Predicting Power Transformer Health Index and Life Expectation Based on Digital Twins and Multitask LSTM-GRU Model” Computers and Electrical Engineering. “Under Publications”
- [9] **Yara A. Sultan**, Zainab H. Ali, Abdelfattah A. Eladl, Sahar S. Kaddah “Offshore Wind Farm Systems: A review on HVDC Transmission Mode, Challenges, and IoT Integration” The Journal of Supercomputing. “Under Publications”

I do hereby declare that the information furnished above is true to the best of my knowledge .

Name:

Signature:

Other Relevant Experience

- Attend a professional training course of 14-hour lectures
Smart Transmission System: A key Path for the Future Electrical Networks Department of Electronic and Electrical Engineering - Strathclyde University.
- Participated in the international Middle East Power System Conference MEPCON '15 organization.
- Nine Month Diploma (ITI) : Professional Development Department, Information Technology Institute (ITI), Ministry of Communication and Information Technology.
ITI is Professional 9-month Diploma Program is a highly competitive governmental scholarship, with acceptance rate of 7%.
- Supervised a final year projects at Faculty of Engineering, Mansoura University
 - [1] Solar energy integration of photovoltaic systems in microgrids.
 - [2] Study the transient performance of Smart grid and renewable energy integration.
 - [3] Multi-classification of Brain Tumor using machine learning.
- Supervised a final year projects at Faculty of Engineering, Horus University
 - [1] Smart Solar-based Irrigation System.
- Participated in AIRGEC Annual Conference by Horus University in Egypt, 2023.
- Participated in the First Nile International Conference on Sustainable Construction and Information Technology, 2023.
- Participated in 24th International Middle East Power Systems Conference, MEPCON 2023, Mansoura University.
- Attend the Scientific Thinking and Argumentation Skills for Problem Solving workshop presented by DAAD and Hosted by Horus University Entrepreneurship Training center (ETC).
- Attend the Self-Management workshop presented by DAAD and Hosted by Horus University Entrepreneurship Training center (ETC).