

**Name: Mohammad Hassan Soliman**

**Current Title: Assistant Professor**

**Contact information**

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### **FIELDS OF SPECIALIZATION**

- Power Electronics applications
- Renewable Energy interfacing
- Voltage/Frequency stability

### **DEGREES**

- **Ph.D.**, Electrical Engineering, Ain Shams University, Frequency control of smart grids.
- **M.Sc.**, Electrical Engineering, Ain Shams University, Control of Induction Motors.
- **B.Sc.**, Electrical Power and Machines Dept., Distinction with Honor degree.

### **ACADEMIC AND INDUSTRIAL POSITIONS**

- 1- July 2016 – March 2022,  
Elected Board member of Electrical Engineering Committee  
Egyptian Engineers Syndicate  
(مجلس شعبة الهندسة الكهربائية – نقابة المهندسين)  
Director of Training committee
- 2- Sept. 2011 – March 2016  
Elected Board member  
Ain Shams University Professors Club  
(نادى أعضاء هيئة التدريس)  
Member of the cultural committee
- 3- September 2001 – July 2006  
Member of the **World Energy Council**, Youth committee  
(An international non-governmental Organization, headquartered in London)

### **CONSULTANT**

**2004** PLC control project in **HW** contact lenses Co.

Designing and implementing a control system on the lathes using Programmable Logic Controllers (**PLC**).

**2001** Financial evaluation of the electromechanical assets of **GHabbour** group,  
a part of total assets evaluation process; sponsored by Al-AHLY Bank.

## **AWARDS**

The prize of the **Best Paper** in the **Youth Symposium** of the **World Energy Congress**,  
(Sydney-Australia) 2004

The Title of the **Best Student** (الطالب المثالي) in the Faculty of Engineering  
Ain Shams University, 1998 -1999

Member of various delegations representing **Egypt** in:

- University of **Waterloo, Canada**  
(Scientific mission, **PAROWN** initiative, Ministry of Higher Education), 2010
- (**World Energy Congress**), Sydney, Australia  
(The periodic conference of the **World Energy Council**), 2004
- Libya (Arabic Scouting Camp), 1997
- Tunisia (Student Exchange Program), 1996
- Germany (Student Exchange Program), 1993

## **PUBLICATIONS**

### **Journal Papers**

- B. N. Fanos, M. H. Soliman, H. E. Talaat, and M. A. Attia, "Modern active voltage control in distribution networks, including distributed generation, using the hardware-in-the-loop technique," *Symmetry*, vol. 15, no. 1, p. 90, 2022.

- R. R. Sorial, M. H. Soliman, H. M. Hasanien and H. E. A. Talaat, "A Vector Controlled Drive System for Electrically Power Assisted Steering Using Hall-Effect Sensors," in IEEE Access, vol. 9, pp. 116485-116499, 2021, doi: 10.1109/ACCESS.2021.3105609.

- M. H. Soliman, H. E. A. Talaat, and M. A. Attia, "Power system frequency control enhancement by optimization of wind energy control system," *Ain Shams Engineering Journal*, vol. 12, no. 4, pp. 3711–3723, 2021.

- Ramy R. Sorial, Mohammad H. Soliman, H. A. Talaat, “A Protection Strategy for an Electric Power Steering System powered by a Permanent Magnet Synchronous Motor”, Journal of Scientific and Engineering Research (JSAER), 2019.

- Mai M. Abdelfattah, Mohammad H. Soliman, H. A. Talaat, “Particle Swarm-Based Load Frequency Control for Enhancing Wind Turbine Contribution ”, Engineering and Scientific Research Journal (ESRJ), Faculty of Engineering (Shoubra), Benha University, Egypt, 2019.

- Mostafa I. Marei, Mohamed H. Soliman, “A Coordinated Voltage and Frequency Control of Inverter Based Distributed Generation and Distributed Energy Storage System for Autonomous Microgrids”, Electric Power Components and Systems, 2013, 41:4, 383-400, DOI: [10.1080/15325008.2012.749550](https://doi.org/10.1080/15325008.2012.749550)

- M. H. Soliman, M. I. Marei, M. M. Mansour, “Stability Improvement of Distribution Networks using Inverter-based Distributed Generators at Different Modes of Operation”, Ain Shams Journal of Electrical Engineering (ASJEE), 2009.



## Conference Publications

- Beshoy Nabil Fahmy, Mohammad H. Soliman, Hossam E. A. Talaat, “Active Voltage Control in Distribution Networks including Distributed Generations using Hardware-In-The-Loop Technique”, 21st International Middle East Power Systems Conference (MEPCON), 2019.
- Mai M. Abdelfattah, M. H. Soliman, H. A. Talaat, “Integration Impact of Wind Energy Conversion Systems on The Egyptian Power System”, 2<sup>nd</sup> International Conference on New Trends in Sustainable Energy (ICNTSE), Pharos University, Egypt, 2018.
- M. H. Soliman, M. I. Marei, M. M. Mansour, “Stability Improvement of Distribution Networks using Inverter-based Distributed Generators at different penetration levels”, 7th International Conference on Electrical Engineering, Military Technical College, Cairo, Egypt, 2010.
- M. H. Soliman, “Rural Electrification and Sustainable Development –Electrification of Rural Areas in Egypt”, World Energy Congress, Sydney, Australia, 2004