

Curriculum Vitae

Hassan Haes Alhelou

Lecturer, Researcher

Department of Electrical Power Engineering

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Currently: Ph.D. Researcher, ECE, Isfahan University of Technology, Iran.



Education

PH.D. student Electrical Engineering-Power Systems, at ECE Department, Isfahan University of Technology (IUT), Isfahan, Iran, 2016-present.

- *Ph.D. thesis* “*Smart grid and micro-grid systems control using a new technologies*” on going...

M.Sc. Electrical Engineering-Power Systems, at ECE Department, Isfahan University of Technology (IUT), Isfahan, Iran, 2014-2016.

- *M.Sc. thesis* “*Primary and Secondary Frequency Control in Power Systems using Electric Vehicles Taking into Account The Response of Smart Appliances*”. Marked 20 out of possible 20.

B.Sc. Electrical Power Engineering, at faculty of mechanical and electrical Engineering, Tishreen University (TU), Latakia, Syria, 2007-2011 (Honors)

- *B.Sc. thesis* “*Analysis of implementation and Simulation of a new induction motor Drive Systems using vector control strategy and PLC connected to SCADA systems*” Marked 99 out of possible 100.

Appointments and Experiences

- 2011- Present faculty member, Department Electrical power Engineering, Tishreen University, Lattakia, Syria.
- 2011-2014 Research Assistant, Tishreen University, Lattakia, Syria.

Research Interests

Smart grid issues, Power system Operation and Control, Frequency Control in Power Systems, Demand response and Electric Vehicles, MicroGrid Operation and Control, Electric Vehicles, Electricity Markets, Multi-agent systems.

Honors and Awards

Award (2016): Outstanding Reviewer, Energy conversion and Management Journal, Elsevier, [Netherlands](#), in October, 2016.

Award & Scholarship (2010): The International Association for the Exchange of Students for Technical Experience (IAESTE), *Athens*, [GREECE](#), 2010.

Award (2011): Recipient of *Bessel Al Assad award* for honors and distinct student in the B.Sc. degree, higher education ministry, *Damascus*, [SYRIA](#), 2011.

Award (2011): The best research paper among 115 participant from 61 universities from 18 countries of Arabic world, The Arab Council for Training Students of Arab Universities (ACTSAU), *Alexandria*, [EGYPT](#), 2011.

Award (2011): Ranked first among B.Sc. graduate students, Tishreen University, *Lattakia*, [SYRIA](#), 2011.

Award (2007-2011): Ranked first every year among all students of class 2007, Tishreen University, *Latakia*, [SYRIA](#), 2007-2011.

Professional Activities

Oral presentation in conferences

- ICEE2016, Shiraz, [Iran](#), 2016.
- ICEIA2016, Tabriz, [Iran](#), 2016.
- SGC2015, Tehran, [Iran](#), 2015.
- ACTSAU2012, Riyadh, [KSA](#), 2012.
- ACTSAU2011, Alexandria, [Egypt](#), 2011.
- IAESTE 2010, Volos, [Greece](#), 2010.
- Some conferences, Lattakia, [Syria](#), 2009-2013.

Technical Review Activities

- Energy conversion and management journal, Elsevier, [Netherland](#).
- Engineering Science and Technology, an International Journal, [Netherland](#)
- Energy and Environment Research, Toronto, [Canada](#).
- Journal of energy and power engineering, David publishing company, [USA](#).
- IET Generation, Transmission & Distribution, IET, [UK](#).
- Some conference in electrical engineering around the world.

Teaching Activities

- ✓ Electric Drive systems laboratory, Power system *dep.*, TU, 3 Times.
- ✓ Drive systems of DC&AC motors *Lab.*, Mechatronics *dep.*, TU, 1 Time.
- ✓ Power systems protection laboratory, Power system *dep.*, TU, 2 Times.
- ✓ Electrical circuits problems solution, Mechatronics *dep.*, TU, 2 Times.
- ✓ Allen-Bradley and Siemens (300&400) PLCs, Power Group, TU, 4 Times.
- ✓ SCADA systems, Power system *dep.*, TU, 2 Times.

Memberships

- 2011-present The organization of Syrian engineers
- 2015-present IEEE Student Member

Industrial Activities

- ❖ Supervisor & Collaborating as a trainer in an industrial project entitled “*Monitoring and Control of Oil Transmission System using Allen-Bradley & Siemens PLCs Connected to SCADA System,*” The Syrian Company of Oil Transport (SCOT), Ref. NO. MT/14-76/122, Banias City, [Syria](#), 2012-2013.
- ❖ Collaborating as a trainee in an industrial project entitled “*Maintenance of The Monitoring and Control Power Electronic Devices of Apache Helicopters in Air and Aviation Force Station,*” 307 Army Aviation Technical Support Group, Volos, Ref. No. GR/EL/A016, Magnisia, [Greece](#), 2010.
- ❖ Collaborating in an industrial project entitled “*optimal FACTS devices location in Syrian electric grid,*” Syrian Grid Management Company, Damascus, [Syria](#), 2012.
- ❖ Collaborating in the supervision of a research project entitled “*Voltage stability Assessment of a Syrian power system using artificial neural networks ANN,*” Tishreen University, Latakia, [Syria](#), 2011.

Publications

- [1] M. Hajiakbari Fini, G. R. Yousefi and **H. Haes Alhelou**, “*Comparative study on the performance of many-objective and single-objective optimisation algorithms in tuning load frequency controllers of multi-area power systems,*” in *IET Generation, Transmission & Distribution*, vol. 10, no. 12, pp. 2915-2923, 9 2 2016.
- [2] **H.H. Alhelou** and M.E.H. Golshan, “*Hierarchical Plug-in EV Control Based on Primary Frequency Response in Interconnected Smart Grid*”, in: Proceedings of the 24th Iranian Conference on Electrical Engineering — ICEE 2016 (technically co-sponsored by IEEE), Shiraz, Iran, CD-R, May 10-12, 2016. (Indexed by IEEE)
- [3] S.J. Mirjalili, M.A. Latify, **H.H. Alhelou**, “*Optimal generation mix considering demand response and energy storage technologies*” , in: Proceedings of the 1st International Congress on New Research Achievements in Electrical and Computer Engineering — ICNRAECE 2016 (technically co-sponsored by IEEE), Tehran, Iran, CD-R, May 13-14, 2016.
- [4] **H.H. Alhelou**, M.E.H. Golshan, and S. Jamal Mirjalili, “*Automated Online EV Virtual Power Plant Based Primary Reserve in Interconnected Power Systems*”, in: Proceedings of the 4th International Congress on Electric Industry Automation (ICEIA 2016), Tabriz, Iran, CD-R, February 23-24, 2016.
- [5] **H.S.H. Alhelou**, M.E.H. Golshan, and M. Hajiakbari Fini, “*Multi agent electric vehicle control based primary frequency support for future smart micro-grid*”, in: Proceedings of the Smart Grid Conference — SGC 2015 (technically co-sponsored by IEEE), Tehran, Iran, CD-R, December 23-24, 2015.

- [6] **H.H. Alhelou** and M. Alkalf, "*Fuzzy logic control based drive system of industrial induction motors*", in: Proceedings of the Arab Council for Training students of Arab universities — ACTSAU 2012, Cairo, EGYPT, CD-R, October 10-15, 2012.
- [7] **H.H. Alhelou** and B. Ateiha, "*Design and implementation of a drive system of induction motors using sensorless vector control and PLC*", in: Proceedings of the Arab Council for Training students of Arab universities — ACTSAU 2011, Alexandria, Egypt, CD-R, October 3-8, 2011.