



Curriculum Vitae

Assoc.Prof. Mahmoud Mohamed Hussein Saleh

Mahmoud Mohamed received the bachelor and Master degree in electrical engineering in 2000 and 2006, respectively, from Faculty of Energy Engineering, Aswan University, Egypt. He had been a lecturer in the Department of Electrical Engineering, Faculty of Energy Engineering, Aswan University, Aswan, Egypt from 2007 till 2014. He obtained his Ph.D through a joint supervision mission between Egypt (Minia University, Minia) and Japan (University of the Ryukyus, Okinawa) but the Ph.D degree has been granted from Egypt side in 2014. He currently holds a position of associate professor at the Faculty of Energy Engineering, Aswan University.

From 2009-2011, he was with Aswan Power Electronic Application Research Center (APEARC), as a Research Assistant. He had been joined Graduation School of Engineering and Science, The University of the Ryukyus, Okinawa, Japan, to complete the external part of his Ph.D thesis from 2011 to 2013.

He has authored or coauthored over 30 papers in leading international conferences and journals, mainly on the topics of distributed generation, renewable energy, power system planning, power quality, and reliability.

[1] PERSONAL IDENTIFICATION:

SURNAME	Saleh
FIRST NAMES	Mahmoud Mohamed Hussein
DATE OF BIRTH	Oct. 29, 1976
PLACE OF BIRTH	Edfu, Aswan, Egypt
NATIONALITY	Egyptian
SEX	Male
MARITAL STATUS	Married
MAIL ADDRESS	Dept. of Electrical Engineering, Faculty of Energy Engineering, Aswan University, Egypt, 81528.
EMAIL ADDRESS	Mahmoud_hussein@aswu.edu.eg Hussein760@gmail.com
TELEPHONE	+20- 115- 378- 9949

[2] EDUCATION:**FIRST UNIVERSITY DEGREE:**

NAME OF DEGREE	B.Sc.
DATE DEGREE AWARDED	May 2000.
FACULTY AND UNIVERSITY	Faculty of Energy Engineering, Aswan University, Aswan, Egypt.
SPECIALIZATION	Electrical Engineering (Power and Machinery)
GRADE	Very good (83.26%).

SECOND UNIVERSITY DEGREE:

NAME OF DEGREE	M.Sc.
DATE DEGREE AWARDED	June 2006.
FACULTY AND UNIVERSITY	Faculty of Energy Engineering, Aswan University, Aswan, Egypt.
SPECIALIZATION	Electrical Engineering (Power System).

TITLE OF MASTER THESIS:

“Fault Duration for Voltage Instabilities Initiation”

THIRD UNIVERSITY DEGREE:

NAME OF DEGREE	Ph.D.
DATE DEGREE AWARDED	September 2014.
FACULTY AND UNIVERSITY	Internal Part, Faculty of Engineering, Minia University, Minia, Egypt. External Part, University of the Ryukyus, Okinawa, Japan
SPECIALIZATION	Electrical Engineering (Renewable Energy).

TITLE OF PHD THESIS:

“Design of Power Electronic Interface System between Permanent Magnet Synchronous Generators for Wind Energy and Electric Power System”

[3] CURRENT POSITION

An Associate Professor, Department of Electrical Engineering, Faculty of Energy Engineering, Aswan University, Aswan, Egypt.

[4] PROFESSIONAL SKILLS

FROM 12/2019- TILL NOW	An Associate Professor, Electrical Engineering Department, Faculty of Energy Engineering, Aswan University, Aswan, Egypt.
FROM 10/2014- 12/2019	An Assistant Professor, Electrical Engineering Department, Faculty of Energy Engineering, Aswan University, Aswan, Egypt.
FROM 4/2013- 10/2014	A Lecturer, Electrical Engineering Department, Faculty of Energy Engineering, Aswan University, Aswan, Egypt.
FROM 4/2011- 4/2013	A Visitor Researcher at Graduation School of Engineering and Science, The University of the Ryukyus, Okinawa, Japan.
FROM 3/2009- 4/2011	A Researcher at Aswan Power electronic application research center, Aswan University, Egypt.
FROM 4/2007- 3/2009	A Lecturer, Electrical Engineering Department, Faculty of Energy Engineering, Aswan University, Aswan, Egypt.
FROM 3/2002- 4/2007	An Assistant Lecturer, Electrical Engineering Department, Faculty of Energy Engineering, Aswan University, Aswan, Egypt.

[5] TEACHING SUBJECTS

1. Principles of Electrical Circuits.
2. Direct Current (DC) Machines.
3. Alternating Current (AC) Machines.
4. Power systems Analyses.
5. Fundamentals of Power Electronics.
6. Power Transmission and Distribution.
7. Energy Conversions and Utilizations.
8. Electrical Measurements.

9. Special Electrical Machines.
10. Industrial electronics.
11. Electrical Testing (DC Machines).
12. Electrical Testing (AC Machines).
13. Electrical Testing (Transformers).
14. Electrical Testing (Power Systems and Transmissions).
15. Electrical Testing (Power Electronics).

[6] FIELD OF INTERESTS

1. New and Renewable energy.
2. Industrial Power Electronics.
3. Power systems quality and reliability.
4. AC/DC, DC/AC, and DC/DC Converters.
5. Electric Machine drives.
6. Digital Control.

[7] COMPUTER SKILLS

COMPUTER SKILLS

International Computer Drive License (ICDL)
 Programming and Analysis using Matlab and Simulink.
 Psim Software.
 FORTRAN Languages.
 DSPACE.

[8] LANGUAGE SKILLS

- Arabic Native or bilingual proficiency (Mother Tongue).
- English Full professional proficiency {Over All Band Score is 5 in the International English Language System (IELTS) test}.
- French (Basic).

[9] LINKS OF MY PROFILES.

- Google scholar: <https://scholar.google.com.eg/citations?user=7n2HA84AAAAJ&hl=en>
- Scopus : <https://www.scopus.com/authid/detail.uri?authorId=37012588500>
- Research Gate: https://www.researchgate.net/profile/Mahmoud_Hussein17

[10]LIST OF PUBLISHED PAPERS

After my graduation and worked in research, I published more than 25 papers in indexed international Journal and conferences.

INTERNATIONAL JOURNALS

1. **Mahmoud M. Hussein** and M. M. Haseeb " **Power Quality Enhancement of Shunt Active Power Filter for Non-Linear Loads**", In International Journal of Applied Energy Systems, Vol.2, No.1, Jan. 2020, pp.99-105.
2. Hussein Abubakr, **Mahmoud M. Hussein** and Tarek H. Mohamed, "Frequency Stabilization of Two Area Power System Interconnected by AC/DC Links using Jaya Algorithm", International Journal of Advanced Science and Technology, Vol. 29, No.1, Jan. 2020, pp. 548-559.
3. Karar Mahmoud, **Mahmoud M. Hussein**, Mohamed abdel-Nasser and Matti Lehtonen, "Optimal Voltage Control in Distribution Systems with Intermittent PV Using Multi-Objective Grey-Wolf-Lévy Optimizer", IEEE System Journal, August 2019, pp. 1-11.
4. Tarek H. Mohamed, Hussein Abubakr, **Mahmoud M. Hussein** and G. Shabib, "Load Frequency Controller Based on Particle Swarm Optimization for Isolated Microgrid System", In International Journal of Applied Energy Systems, Vol.1, No.2, July 2019, pp.69-75.
5. G. Shabib, **Mahmoud M. Hussein** and M. M. Haseeb "Harmonics Mitigation Techniques for Shunt Active Power Filter Control", Journal of Engineering and Applied Science (JEAS), Faculty of Engineering, Cairo University, Vol.65, NO.6, December 2018, pp. 469-491.
6. Y. A. Mobarak, **Mahmoud M. Hussein**, "Voltage Instability of Initiation Fault Duration as Influenced by Nodes Short Circuit Levels NSCL", International Journal of Electrical and Computer Engineering (IJECE), Vol. 6, No. 13, June 2016, pp. 1305-1318.
7. Tarek H. Mohamed, Ahmed A. Zaki Diab and **Mahmoud M. Hussein**, "Application of Linear Quadratic Gaussian and Coefficient Diagram Techniques to Distributed Load Frequency Control of Power Systems", *Applied Sciences Journal* 2015, 5, pp. 1603-1615.
8. **Mahmoud M. Hussein**, Tomonobu Senjyu, Mohamed Orabi, Mohamed A. A. Wahab, Mohamed M. Hamada, "Control of a Stand-Alone Variable Speed Wind Energy Supply System", *Applied Sciences Journal* 2013,3, pp. 437-456.
9. **Mahmoud M. Hussein**, Tomonobu Senjyu, Mohamed Orabi, Mohamed A. A. Wahab, Mohamed M. Hamada, "Simple Sensorless Maximum Power Extraction Control for a Variable Speed Wind Energy Conversion System", International Journal of Renewable and Sustainable Energy in, Vol. 1, No.1, Dec. 2012, pp. 1-10.

10. Y. A. Mobarak, **Mahmoud M. Hussein**, "Voltage Instability and Voltage Collapse as Influenced by Cold Inrush Current", Journal of Automatic Control and System Engineering (ACSE), Vol. 12, No. 1, March 2012, pp. 9-20.
11. A. M. Hemeida, **Mahmoud M. Hussein**, "Fault Duration for Voltage Instability and Voltage Collapse Initiation as a Node Short Circuit Levels (NSCL)", International Review on Modeling and Simulations, Vol. 5, No. 1, Feb. 2012, pp. 489-496.
12. A. M. Hemeida, **Mahmoud M. Hussein**, "Fault Duration for Voltage Instability and Voltage Collapse Initiation as Influenced by Excitation Control System Parameters", International Review of Automatic Control, Vol. 5, No. 1, Jan. 2012, pp. 1-8.
13. A. M. Hemeida, Y. A. Mobarak, **Mahmoud M. Hussein**, "Fault Duration for Voltage Instability and Voltage Collapse Initiation as Influenced by Load Window", International Review on Modeling and Simulations, Vol. 3, No. 5, Oct. 2010, pp. 911-917.
14. A. M. Hemeida, G. Shabib, Y. A. Mobark, **Mahmoud M. Hussein**, "Fault Duration for Voltage Instability and Voltage Collapse Initiation as Influenced by Duration of Cold Inrush Current Magnitudes", Al-Azhar University Engineering Journal, JAUES, Egypt, Vol. 2. No. 5, April 2007, pp. 551-562.
15. A. M. Hemeida, G. Shabib, Y. A. Mobark, **Mahmoud M. Hussein**, "Fault Duration for Voltage Instability and Voltage Collapse Initiation as Influenced by Excitation Control System Parameters", Al-Azhar University Engineering Journal, JAUES, Egypt, Vol. 2. No. 5, April 2007, pp. 583- 594.

INTERNATIONAL CONFERENCE

16. Hussein Abubakr, Tarek H. Mohamed, **Mahmoud M. Hussein** and G. Shabib, "Adaptive Frequency Regulation in Interconnected Two Area Microgrid System", IEEE Conference on Power Electronics and Renewable Energy (CPERE), 23-25 Oct. 2019, Aswan University, Egypt.
17. **Mahmoud M. Hussein**, "Control of a Grid Connected PV Inverter for Supplying Powers with Different Power Factors", 20th International Middel-East Power System Conference (MEPCON 2018), 18-20 Dec. 2018, Cairo University, Egypt.
18. Tarek H. Mohamed and **Mahmoud M. Hussein**, "Online Gain Tuning of Conventional Load Frequency Controller for Microgrid Power System", 20th International Middel-East Power System Conference (MEPCON 2018), 18-20 Dec. 2018, Cairo University, Egypt.
19. **Mahmoud M. Hussein**, Karar Mahmoud and Mohamed abdel-Nasser "Optimal Voltage Control Considering PV-Inverter and OLTC Using Grey Wolf Optimizer", International Conference on Innovative Trends in Computer Engineering (ITCE'2018), 19-21 February 2018, pp. 473 - 477, Aswan University, Egypt.

20. **Mahmoud M. Hussein** and Karar Mahmoud “**Combined Static VAR Compensator and PV-Inverter for Regulating Voltage in Distribution Systems**”, 19th International Middel-East Power System Conference (MEPCON 2017), 19-21 Dec. 2017, pp. 683 - 688, Menoufia University, Egypt.
21. Gaber Shabib, **Mahmoud M. Hussein** and Mahmoud Mohammed Hasseeb “**Comparative Study of Different Control Algorithms of Shunt Active Power Filter for Non-Linear Loads**”, 19th International Middel-East Power System Conference (MEPCON 2017), 19-21 Dec. 2017, pp. 1037 - 1043, Menoufia University, Egypt.
22. **Mahmoud M. Hussein**, “**Control of a Grid Connected Photovoltaic Energy System**”, Conference on Oil Shale and Unconventional Energy Resources For Sustainable Development In Africa, 5-9 March, 2017, Quseir, Red Sea, Egypt.
23. **Mahmoud M. Hussein**, “**Control of a Stand-Alone Photovoltaic Energy System**”, 1st Future University International Conference on New Energy & Environmental Engineering "ICNEEE" 11-14 April, 2016, Cairo, Egypt.
24. Tarek H. Mohamed and **Mahmoud M. Hussein**, “**Robust Frequency Control of Power System in the Presence of DFIG Wind Turbines**”, 17th International Middel-East Power System Conference (MEPCON 2015), 15-17 Dec. 2015, Mansoura University, Egypt.
25. **Mahmoud M. Hussein**, Tomonobu Senjyu, Mohamed Orabi, Mohamed A. A. Wahab, Mohamed M. Hamada, “**Control of a Variable Speed Stand Alone Wind Energy Supply System**”, 2012 IEEE International Conference on Power and Energy (PECON 2012), 2-5 Dec. 2012, pp. 71-76, Kota Kinabalu, Malaysia.
26. **Mahmoud M. Hussein**, Tomonobu Senjyu, Mohamed Orabi, Mohamed A. A. Wahab, Mohamed M. Hamada, “**Load Power Management Control for a Stand Alone Wind Energy System Based on The State of Charge of The Battery**”, 2012 IEEE International Conference on Power and Energy (PECON 2012), 2-5 Dec. 2012, pp.93-98, Kota Kinabalu, Malaysia.
27. **Mahmoud M. Hussein**, Tomonobu Senjyu, Mohamed Orabi, Mohamed A. A. Wahab, Mohamed M. Hamada, “**Control of a Grid Connected Variable Speed Wind Energy Conversion System**”, International Conference on Renewable Energy Research and Applications (ICRERA 2012), 11-14 Nov. 2012, pp. 1-5, Nagasaki, Japan.
28. **Mahmoud M. Hussein**, Tomonobu Senjyu, Mohamed Orabi, Mohamed A. A. Wahab, Mohamed M. Hamada, “**Simple Maximum Power Extraction Control for Permanent Magnet Synchronous Generator Based Wind Energy Conversion System**”, International Conference on Electronics, Communications and Computers (JEC-ECC), 2012 Japan-Egypt, 6-9 March 2012, pp. 194-199, Alexandria, Egypt.
29. **Mahmoud M. Hussein**, Mohamed Orabi, Mahrous E. Ahmed, Mohamed A. A. Wahab, Mohamed M. Hamada, “**Simple Direct Sensorless Control of Permanent Magnet**

Synchronous Generator Wind Turbine”, The 14th International Middle East Power Systems Conference (MEPCON’10), 19-21 Dec.2010, pp. 652-656, Cairo University, Egypt.

30. **Mahmoud M. Hussein**, Mustafa Mousa, Mamdouh Abdel-Akher, Mohamed Orabi, Mahrous E. Ahmed, Mohamed A. A. Wahab, Mohamed M. Hamada, “**Studying of the Available Wind and Photovoltaic Energy Resources in Egypt**”, The 14th International Middle East Power Systems Conference (MEPCON’10), 19-21 Dec.2010, pp. 657-662, Cairo University, Egypt.
31. **Mahmoud M. Hussein**, Mohamed Orabi, Mahrous E. Ahmed, Mahmoud A. Sayed, “**Simple Sensorless Control Technique of Permanent Magnet Synchronous Generator Wind Turbine**”, 2010 IEEE International Conference on Power and Energy (PECON 2010), 29 Nov. – 1 Dec., 2010, pp. 512-517, Kuala Lumpur, Malaysia.