

CURRICULUM VITAE

Mohamed Abdelaziz Abdelrahman Mohamed



Personal Details:

Name	Mohamed Abdelaziz Abdelrahman Mohamed
Author Name	Mohamed A. Mohamed
Date of Birth	5 th , January, 1985.
Place of Birth	Minia, Egypt, 61519.
Nationality	Egyptian.
Marital Status	Married.
Specialty	General Specialization: Electrical Power Engineering.
Employment	Assistant Professor: Electrical Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. Since March 2017- till now. Assistant Professor: Electrical Engineering Department, Faculty of Engineering, King Saud University, Riyadh, Saudi Arabia. Since May 2016- till March 2017. PhD Student: Electrical Engineering Department, Faculty of Engineering, King Saud University, Riyadh, Saudi Arabia. Since September 2011- till May 2016. Teaching Assistant: Electrical Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. Since June 2010- September 2011. Demonstrator: Electrical Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. Since May 2008 -May 2010.

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Education:

May 2016

Ph.D., Electrical Engineering Department. Faculty of Engineering, King Saud University Riyadh – Saudi Arabia.

Dissertation Title: "Modeling and Simulation of Smart Grid Integrated with Hybrid Renewable Energy System".

May 2010

M.Sc., Electrical Engineering Department. Faculty of Engineering, Minia University Minia – Egypt.

Thesis Title: "Study the Performance of Single-Core Electrical Underground Cables".

August 2007

Preliminary Postgraduate Courses. Faculty of Engineering, Minia University, Minia – Egypt

May 2006

B.Sc., Faculty of Engineering, Minia University, Minia – Egypt.

(Top student, Very Good, with honor, Ranked 83.92%).

Graduation Project: "Design of an overhead transmission line" (distinction).

Published Books:

Book Title: Modeling and Simulation of Smart Grid Integrated with Hybrid Renewable Energy Systems.

Series Title: Studies in Systems, Decision and Control.

Series Volume: 121.

Publisher: Springer International Publishing.

eBook ISBN: 978-3-319-64795-1.

DOI: 10.1007/978-3-319-64795-1.

Hardcover ISBN: 978-3-319-64794-4.

Series ISSN: 2198-4182.

Link: <http://www.springer.com/us/book/9783319647944>

Published Chapters:

Book Title: Advances in Renewable Energies and Power Technologies

Chapter Title: Optimal Sizing and Designing of Hybrid Renewable Energy Systems in Smart Grid Applications

Editors: Imene Yahyaoui

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Link: <https://www.elsevier.com/books/advances-in-renewable-energies-and-power-technologies/yahyaoui/978-0-12-813185-5?author=&cat0=27368&cat1=27888&cat2=34576&categoryrestriction=&imprintname=&producttype=&q=&sort=alphaasc>

Publications from (Ph.D.):

- **Mohamed A. Mohamed**, Diab, A. A. Z., & Rezk, H. (2018). Partial Shading Mitigation of PV Systems via Different Meta-Heuristic Techniques. Renewable Energy.
- **Mohamed A. Mohamed**, Ali M. Eltamaly, and Abdulrahman I. Alolah. "Swarm intelligence-based optimization of grid-dependent hybrid renewable energy systems." Renewable and Sustainable Energy Reviews 77 (2017): 515-524.
- **Mohamed A. Mohamed**, Ali M. Eltamaly, Mamdooh Al-Saud, and Abdulrahman I. Alolah. "Load management as a smart grid concept for sizing and designing of hybrid renewable energy systems." Engineering Optimization (2016): 1-16.
- **Mohamed A. Mohamed**, Ali M. Eltamaly, and Abdulrahman I. Alolah. "PSO-based smart grid application for sizing and optimization of hybrid renewable energy systems." PloS one 11.8 (2016): e0159702.
- **Mohamed A. Mohamed**, Ali M. Eltamaly, and Abdulrahman I. Alolah. "A novel smart grid theory for optimal sizing of hybrid renewable energy systems." Solar Energy 124 (2016): 26-38.
- **Mohamed A. Mohamed**, Ali M. Eltamaly, and Abdulrahman I. Alolah. "Sizing and techno-economic analysis of stand-alone hybrid photovoltaic/wind/diesel/battery power generation systems." Journal of Renewable and Sustainable Energy 7.6 (2015): 063128.
- **Mohamed A. Mohamed**, Ali M. Eltamaly, and Abdulrahman I. Alolah. "A smart technique for optimization and simulation of hybrid photovoltaic/wind/diesel/battery energy systems." IEEE International Conference on Smart Energy Grid Engineering (SEGE), 2015.
- **Mohamed A. Mohamed**, Ali M. Eltamaly, and Abdulrahman I. Alolah. "Energy management and renewable energy integration in smart grid system." IEEE International Conference on Smart Energy Grid Engineering (SEGE), 2015.

- **Mohamed A. Mohamed**, and Ali M. Eltamaly. "A novel software for design and optimization of hybrid power systems." Journal of the Brazilian Society of Mechanical Sciences and Engineering 38.4 (2016): 1299-1315.
- **Mohamed A. Mohamed**, and Ali M. Eltamaly "A Novel Design and Optimization Software for Autonomous PV/Wind/Battery Hybrid Power Systems" Mathematical Problems in Engineering 2014 (2014).
- **Mohamed A. Mohamed**, Ali M. Eltamaly, Khaled E. Addoweesh and Umar Bawa "Economic Modeling of Hybrid Renewable Energy System: A Case Study in Saudi Arabia." Arabian Journal for Science and Engineering 39.5 (2014).
- **Mohamed A. Mohamed**, Ali M. Eltamaly, Khaled E. Addoweesh and Umar Bawa "New software for hybrid renewable energy assessment for ten locations in Saudi Arabia." Journal of Renewable and Sustainable Energy 5.3 (2013): 033126.
- **Mohamed A. Mohamed**, Ali M. Eltamaly and Hassan M. Farh, "Wind energy assessment for five locations in Saudi Arabia", 2012 International Conference on Future Environment and Energy (ICFEE 2012,) IPCBEE vol.28(2012) © (2012)IACSIT Press, , February 26-28, 2012, Singapore.

Publications from (M.Sc. thesis):

- **Mohamed A. Mohamed** and Hassan H. EL-Tamaly, "Voltage Drop and Sheath Current Calculations of Single-Core Cables under Different Sheath Bondings and Configurations", AL-Azhar Engineering Tenth International Conference (AEIC 2008), December 24-26, (2008), AL-Azhar University, Egypt.
- **Mohamed A. Mohamed** and Hassan H. EL-Tamaly, "Study the Effect of Different Installation Methods on Voltage Drop and Sheath Current of Single-Core Cables ", 13th International Middle East Power System Conference (MEPCON, 09), December 20-23, (2009), Assiut University, Egypt.

Projects:

I share in many practical projects as example:

- Load Management as Smart Grid Concept for Sizing and Designing of Hybrid Renewable Energy Systems. (May 2016 - till now)
- Design and Implementation of Smart Grid Integrated with Renewable Energy Sources in Saudi Arabia.(May 2015)
- Design and Implementation of Wind Energy System in Saudi Arabia. (November 2011)
- Design of PV-Fuel Cell system. (Jun 2010)
- Design of PV-Battery storage system. (Jun 2009)
- Design of PV system. (Jun 2008)
- Design of an Overhead Transmission Line. (July 2006)
- I had made many projects such as large sign board, controlling stepper motor, Traffic Sign, Flasher and many control circuits, etc.
- Many projects using PLC (Inverter, DC motor control, 3-Phase Induction Motor Control...)

Languages:

- English: Fluent written, listening and spoken. (Study Language in My Faculty is English "B.Sc. , M.Sc and Ph.D")

Skill Set:

- Programming with MATLAB/SIMULINK.
- Programming with Languages (VC, VB, FORTRAN).
- AUTOCAD.
- PLC and SCADA.
- PIC Microcontroller programming.

Training and Courses:

- 7/2008-8/2008 Siemens lab.- Ain Shams University
- 28/8/2007 - 30/8/2007 Faculty and Leadership Development project (FLDP)
Attending a course in How to Use Technology in Teaching (T3).
- 21/8/2007 - 23/8/2007 Faculty and Leadership Development project (FLDP)
Attending a course in Quality Assurance (D3).
- 3/7/2004 - 2/8/2004 Middle Egypt Company for Electricity Distribution
Attending summer training in Electrical power fields (Overhead T.L. - Power Transformers – CB – etc.).

Experience:

2006 - till now: Teaching Undergraduate Courses.

“Renewable Energy Technologies”, “Energy Management”, “Energy Saving”, “Energy Utilization”, “Energy Conversion”, “Electrical Machine”, Electrical Circuits”, “Electrical Machines and Control Laboratory”, “Control”, “Power Electronics”, “PLC Programming and Applications”, “Protection”, “Electronic Measurements”.

Yours,

Mohamed Abdelaziz Mohamed (PhD)

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Researchgate Webpage:

https://www.researchgate.net/profile/Mohamed_Mohamed146

Google Scholar Webpage:

<https://scholar.google.co.in/citations?user=WufDFY8AAAAJ&hl=en>

Book Webpage:

<https://link.springer.com/book/10.1007/978-3-319-64795-1>

Chapter Webpage:

[https://www.elsevier.com/books/advances-in-renewable-energies-and-power-](https://www.elsevier.com/books/advances-in-renewable-energies-and-power-technologies/yahyaoui/978-0-12-813185-5?author=&cat0=27368&cat1=27888&cat2=34576&categoryrestriction=&imprintname=&productt)

[technologies/yahyaoui/978-0-12-813185-](https://www.elsevier.com/books/advances-in-renewable-energies-and-power-technologies/yahyaoui/978-0-12-813185-5?author=&cat0=27368&cat1=27888&cat2=34576&categoryrestriction=&imprintname=&productt)

[5?author=&cat0=27368&cat1=27888&cat2=34576&categoryrestriction=&imprintname=&productt](https://www.elsevier.com/books/advances-in-renewable-energies-and-power-technologies/yahyaoui/978-0-12-813185-5?author=&cat0=27368&cat1=27888&cat2=34576&categoryrestriction=&imprintname=&productt)

[ype=&q=&sort=alphaasc](https://www.elsevier.com/books/advances-in-renewable-energies-and-power-technologies/yahyaoui/978-0-12-813185-5?author=&cat0=27368&cat1=27888&cat2=34576&categoryrestriction=&imprintname=&productt)