

CURRICULUM VITAE

MOHAMED ABDELAZIZ ABDELRAHMAN MOHAMED



Personal Details:

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Author Name	Mohamed A. Mohamed
Date of Birth	5 th , January, 1985
Place of Birth	Minia 61519, Egypt
Nationality	Egyptian
Marital Status	Married
Specialty	<u>General Specialization:</u> Electrical Power Engineering.
Employment	<u>Postdoctoral Research Fellow:</u> Electrical Engineering Department, Faculty of Engineering, Fuzhou University, Fuzhou, China. Since November 2018 - Till now. <u>Assistant Professor:</u> Electrical Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. Since March 2017 - Till November 2018. <u>Assistant Professor:</u> Electrical Engineering Department, Faculty of Engineering, King Saud University, Riyadh, Saudi Arabia. Since May 2016 - Till March 2017. <u>PhD Candidate:</u> Electrical Engineering Department, Faculty of Engineering, King Saud University, Riyadh, Saudi Arabia. Since September 2011- Till May 2016. <u>Teaching Assistant:</u> Electrical Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. Since June 2010 - September 2011. <u>Demonstrator:</u> Electrical Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt. Since May 2008 - Till 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, Electrical Engineering Department, Faculty of Engineering, Minia University, Minia, Egypt.

May 2006

B.Sc., Electrical Engineering Department, 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:

1- Book Title: "Control and Operation of Grid-Connected Wind Energy Systems".

Chapter Title: *Maximum Power Point Tracking Strategies of Grid-Connected Wind Energy Conversion Systems*. pp.193-225, 2021.

Authors: Eltamaly, A.M., **Mohamed A. Mohamed** and Abo-Khalil, A.G

2- Book Title: "Advanced Technologies for Solar Photovoltaics Energy Systems".

Chapter Title: *A Novel Hybrid Optimization Algorithm for Maximum Power Point Tracking of Partially Shaded Photovoltaic Systems*. pp.201-230, 2021.

Authors: Diab, Ahmed A. Zaki, **Mohamed A. Mohamed**, Ameena Al-Sumaiti, Hamdy Sultan, and Mahmoud Mossa.

3- Book Title: "Advanced Technologies for Solar Photovoltaics Energy Systems".

Chapter Title: *Design and Comprehensive Analysis of Maximum Power Point Tracking Techniques in Photovoltaic Systems*. pp.253-284, 2021.

Authors: Eltamaly, A.M., **Mohamed A. Mohamed** and Abo-Khalil, A.G

4-Book Title: "Advances in Renewable Energies and Power Technologies".

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

Authors: Eltamaly, A.M., **Mohamed A. Mohamed**

Paperback ISBN: 9780128131855

Imprint: Elsevier Science

Published Date: 1st February 2018

Publications (Post-doctoral):

1. Tan, Hong, Wei Yan, Zhouyang Ren, Qiujie Wang, and **Mohamed A. Mohamed**. "A robust dispatch model for integrated electricity and heat networks considering price-based integrated demand response." *Energy* 239 (2022): 121875.
2. Tan, Hong, Zhouyang Ren, Wei Yan, Qiujie Wang, and **Mohamed A. Mohamed**. "A Wind Power Accommodation Capability Assessment Method for Multi-Energy Microgrids." *IEEE Transactions on Sustainable Energy* 12, no. 4 (2021): 2482-2492.
3. Rezaei, Mostafa, Sulaiman Ali Alharbi, Armin Razmjoo, and **Mohamed A. Mohamed**. "Accurate location planning for a wind-powered hydrogen refueling station: Fuzzy VIKOR method." *International Journal of Hydrogen Energy* 46, no. 67 (2021): 33360-33374.
4. **Mohamed, Mohamed A.**, Seyedali Mirjalili, Udaya Dampage, Saleh H. Salmen, Sami Al Obaid, and Andres Annuk. "A Cost-Efficient-Based Cooperative Allocation of Mining Devices and Renewable Resources Enhancing Blockchain Architecture." *Sustainability* 13, no. 18 (2021): 10382.
5. Abdelhamid, Mohammed, Salah Kamel, Ali Selim, **Mohamed A. Mohamed**, Mahrous Ahmed, and Salah K. Elsayed. "Development of bonobo algorithm and its application for optimal coordination of directional overcurrent relays in power systems." *DYNA-Ingéniería e Industria* 96, no. 5 (2021).

6. Ma, Fuqi, Min Li, Xuzhu Dong, Bo Wang, Yinyu Zhou, Jincan Li, Lei Feng, and **Mohamed A. Mohamed**. "Thinking and Prospect of Power Chip Specificity." *International Journal of Photoenergy* 2021 (2021).
7. Rezaei, Mostafa, Udaya Dampage, Barun K. Das, Omaira Nasif, Piotr F. Borowski, and **Mohamed A. Mohamed**. "Investigating the Impact of Economic Uncertainty on Optimal Sizing of Grid-Independent Hybrid Renewable Energy Systems." *Processes* 9, no. 8 (2021): 1468.
8. **Mohamed, M.A.**, Hajjiah, A., Alnowibet, K.A., Alrasheedi, A.F., Awwad, E.M. and Muyeen, S.M., 2021. A Secured Advanced Management Architecture in Peer-to-Peer Energy Trading for Multi-Microgrid in the Stochastic Environment. *IEEE Access*, 9, pp.92083-92100.
9. Wang, H., Wang, B., Luo, P., Ma, F., Zhou, Y. and **Mohamed, M.A.**, 2021. State evaluation based-feature identification of measurement data for resilient power system. *CSEE Journal of Power and Energy Systems*.
10. Ma, H., Liu, Z., Li, M., Wang, B., Si, Y., Yang, Y. and **Mohamed, M.A.**, 2021. A two-stage optimal scheduling method for active distribution networks considering uncertainty risk. *Energy Reports*, 7, pp.4633-4641.
11. Xia, T., Rezaei, M., Dampage, U., Alharbi, S.A., Nasif, O., Borowski, P.F. and **Mohamed, M.A.**, 2021. Techno-Economic Assessment of a Grid-Independent Hybrid Power Plant for Co-Supplying a Remote Micro-Community with Electricity and Hydrogen. *Processes*, 9(8), p.1375.
12. Zou, H., Tao, J., Elsayed, S.K., Elattar, E.E., Almalaq, A. and **Mohamed A. Mohamed**, 2021. Stochastic multi-carrier energy management in the smart islands using reinforcement learning and unscented transform. *International Journal of Electrical Power & Energy Systems*, 130, p.106988.
13. Min, L., Alnowibet, K. A., Alrasheedi, A. F., Moazzen, F., Awwad, E. M., and **Mohamed A. Mohamed**, 2021. A stochastic machine learning based approach for observability enhancement of automated smart grids. *Sustainable Cities and Society*, 103071.
14. **Mohamed A. Mohamed**, Abdullah, H.M., El-Meligy, M.A., Sharaf, M., Soliman, A.T. and Hajjiah, A., 2021. A novel fuzzy cloud stochastic framework for energy management of renewable microgrids based on maximum deployment of electric vehicles. *International Journal of Electrical Power & Energy Systems*, 129, p.106845.
15. Rao, C., Hajjiah, A., El-Meligy, M. A., Sharaf, M., Soliman, A. T., and **Mohamed A. Mohamed**, 2021. A Novel High-Gain Soft-Switching DC-DC Converter With Improved P&O MPPT for Photovoltaic Applications. *IEEE Access*, 9, 58790-58806.
16. Meng, F., Zou, Q., Zhang, Z., Wang, B., Ma, H., Abdullah, H. M., ... and **Mohamed A. Mohamed**, 2021. An intelligent hybrid wavelet-adversarial deep model for accurate prediction of solar power generation. *Energy Reports*, 7, 2155-2164.
17. Al-Ghussain, L., Ahmad, A. D., Abubaker, A. M., and **Mohamed A. Mohamed**, 2021. An integrated photovoltaic/wind/biomass and hybrid energy storage systems towards 100% renewable energy microgrids in university campuses. *Sustainable Energy Technologies and Assessments*, 46, 101273.
18. Al-Ghussain, L., Ahmad, A. D., Abubaker, A. M., Abujubbeh, M., Almalaq, A., and **Mohamed A. Mohamed**, 2021. A Demand-Supply Matching-Based Approach for Mapping Renewable Resources Towards 100% Renewable Grids in 2050. *IEEE Access*, 9, 58634-58651.
19. Rezaei, M., Khalilpour, K.R. and **Mohamed A. Mohamed**, 2021. Co-production of electricity and hydrogen from wind: A comprehensive scenario-based techno-economic analysis. *International Journal of Hydrogen Energy*.
20. Zeng, L., Xia, T., Elsayed, S. K., Ahmed, M., Rezaei, M., Jermsttiparsert, K., ... and **Mohamed A. Mohamed**, 2021. A Novel Machine Learning-Based Framework for Optimal and Secure Operation of Static VAR Compensators in EAFs. *Sustainability*, 13(11), 5777.

21. Wang, Q., Jin, T., **Mohamed A. Mohamed** and Deb, D., 2021. A Novel Linear Optimization Method for Section Location of Single-Phase Ground Faults in Neutral Noneffectively Grounded Systems. *IEEE Transactions on Instrumentation and Measurement*, 70, pp.1-10.
22. **Mohamed A. Mohamed**, Almalaq, A., Abdullah, H.M., Alnowibet, K.A., Alrasheedi, A.F. and Zaindin, M.S.A., 2021. A Distributed Stochastic Energy Management Framework Based-Fuzzy-PDMM for Smart Grids Considering Wind Park and Energy Storage Systems. *IEEE Access*, 9, pp.46674-46685.
23. Yin, F., Hajjiah, A., Jermsittiparsert, K., Al-Sumaiti, A.S., Elsayed, S.K., Ghoneim, S.S. and **Mohamed A. Mohamed**, 2021. A Secured Social-Economic Framework Based on PEM-Blockchain for Optimal Scheduling of Reconfigurable Interconnected Microgrids. *IEEE Access*, 9, pp.40797-40810.
24. Rezk, H., **Mohamed A. Mohamed**, Diab, A.A.Z. and Kanagaraj, N., 2021. Load Frequency Control of Multi-interconnected Renewable Energy Plants Using Multi-Verse Optimizer. *COMPUTER SYSTEMS SCIENCE AND ENGINEERING*, 37(2), pp.219-231.
25. Wang, Q., Jin, T. and **Mohamed A. Mohamed**, 2021. A Fast and Robust Fault Section Location Method for Power Distribution Systems Considering Multisource Information. *IEEE Systems Journal*.
26. Liu, Y., Jin, T., **Mohamed A. Mohamed** & Wang, Q., 2021. A Novel Three-Step Classification Approach Based on Time-Dependent Spectral Features for Complex Power Quality Disturbances. *IEEE Transactions on Instrumentation and Measurement*, 70, 1-14.
27. Lan, T., Jermsittiparsert, K., Alrashood, S.T., Rezaei, M., Al-Ghussain, L. and **Mohamed A. Mohamed**, 2021. An advanced machine learning based energy management of renewable microgrids considering hybrid electric vehicles' charging demand. *Energies*, 14(3), p.569.
28. Eltamaly, A.M., Mohamed, Y.S., El-Sayed, A.H.M., **Mohamed A. Mohamed** and Elghaffar, A.N.A., 2020. Power Quality and Reliability Considerations of Photovoltaic Distributed Generation. *Technology and Economics of Smart Grids and Sustainable Energy*, 5(1), pp.1-21.
29. **Mohamed A. Mohamed**, Abdullah, H.M., Al-Sumaiti, A.S., El-Meligy, M.A., Sharaf, M. and Soliman, A.T., 2020. Towards Energy Management Negotiation Between Distributed AC/DC Networks. *IEEE Access*, 8, pp.215438-215456.
30. Mostafa, M., Abdullah, H.M. and **Mohamed A. Mohamed**, 2020. Modeling and Experimental Investigation of Solar Stills for Enhancing Water Desalination Process. *IEEE Access*, 8, pp.219457-219472.
31. Abdelhamid, M., Kamel, S., **Mohamed A. Mohamed**, Aljohani, M., Rahmann, C. and Mosaad, M.I., 2020, November. Political optimization algorithm for optimal coordination of directional overcurrent relays. In *2020 IEEE Electric Power and Energy Conference (EPEC)* (pp. 1-7). IEEE.
32. **Mohamed, Mohamed A.**, Tao Jin, and Wencong Su. "An effective stochastic framework for smart coordinated operation of wind park and energy storage unit." *Applied Energy* 272 (2020): 115228.
33. **Mohamed A. Mohamed**, Tao Jin, and Wencong Su. "Multi-agent energy management of smart islands using primal-dual method of multipliers." *Energy* (2020): 118306.
34. Gong, Xuan, Feifei Dong, **Mohamed A. Mohamed**, Emad Mahrous Awwad, Heba M. Abdullah, and Ziad M. Ali. "Towards distributed based energy transaction in a clean smart island." *Journal of Cleaner Production* (2020): 122768.
35. Duan, Qunlong, Nguyen Vu Quynh, Heba M. Abdullah, Abdulaziz Almalaq, Ton Duc Do, Sobhy M. Abdelkader, and **Mohamed A. Mohamed**. "Optimal Scheduling and Management of a Smart City Within the Safe Framework." *IEEE Access* 8 (2020): 161847-161861.
36. Liu, Jun, Rong Jia, Wei Li, Fuqi Ma, Heba M. Abdullah, Hengrui Ma, and **Mohamed A. Mohamed**. "High precision detection algorithm based on improved RetinaNet for defect recognition of transmission lines." *Energy Reports* 6 (2020): 2430-2440.

37. Wang, Bo, Fuqi Ma, Leijiao Ge, Hengrui Ma, Hongxia Wang, and **Mohamed A. Mohamed**. "Icing-EdgeNet: A Pruning Lightweight Edge Intelligent Method of Discriminative Driving Channel for Ice Thickness of Transmission Lines." *IEEE Transactions on Instrumentation and Measurement* (2020).
38. Jin, Tao, Yueling Chen, Jintao Guo, Mengqi Wang, and **Mohamed A. Mohamed**. "An effective compensation control strategy for power quality enhancement of unified power quality conditioner." *Energy Reports* 6 (2020): 2167-2179.
39. Wang, Peng, Dan Wang, Chengliang Zhu, Yan Yang, Heba M. Abdullah, and **Mohamed A. Mohamed**. "Stochastic management of hybrid AC/DC microgrids considering electric vehicles charging demands." *Energy Reports* 6 (2020): 1338-1352.
40. **Mohamed, Mohamed A.**, Abdulaziz Almalaq, Emad Mahrous Awwad, Mohammed A. El-Meligy, Mohamed Sharaf, and Ziad M. Ali. "A Modified Balancing Approach for Renewable Based Microgrids Using Deep Adversarial Learning." *IEEE Transactions on Industry Applications* (2020).
41. **Mohamed, Mohamed A.**, Abdulaziz Almalaq, Emad Mahrous Awwad, Mohammed A. El-Meligy, Mohamed Sharaf, and Ziad M. Ali. "An Effective Energy Management Approach within a Smart Island Considering Water-Energy Hub." *IEEE Transactions on Industry Applications* (2020).
42. **Mohamed, Mohamed A.**, Hossein Chabok, Emad Mahrous Awwad, Ahmed M. El-Sherbeeney, Mohammed A. Elmeligy, and Ziad M. Ali. "Stochastic and distributed scheduling of shipboard power systems using M0FOA-ADMM." *Energy* (2020): 118041.
43. **Mohamed, Mohamed A.**, Elham Tajik, Emad Mahrous Awwad, Ahmed M. El-Sherbeeney, Mohammed A. Elmeligy, and Ziad M. Ali. "A two-stage stochastic framework for effective management of multiple energy carriers." *Energy* 197 (2020): 117170.
44. Gong, Xuan, Feifei Dong, **Mohamed A. Mohamed**, Omer M. Abdalla, and Ziad M. Ali. "A secured energy management architecture for smart hybrid microgrids considering PEM-fuel cell and electric vehicles." *IEEE Access* 8 (2020): 47807-47823.
45. **Mohamed, Mohamed A.**, Emad Mahrous Awwad, Ahmed M. El-Sherbeeney, Emad Abouel Nasr, and Ziad M. Ali. "Optimal scheduling of reconfigurable grids considering dynamic line rating constraint." *IET Generation, Transmission & Distribution* 14, no. 10 (2020): 1862-1871.
46. Chen, Jian, Xin Li, **Mohamed A. Mohamed**, and Tao Jin. "An adaptive matrix pencil algorithm based-wavelet soft-threshold denoising for analysis of low frequency oscillation in power systems." *IEEE Access* 8 (2020): 7244-7255.
47. Jin, Tao, Feng Zhuo, and **Mohamed A. Mohamed**. "A Novel Approach Based on CEEMDAN to Select the Faulty Feeder in Neutral Resonant Grounded Distribution Systems." *IEEE Transactions on Instrumentation and Measurement* 69, no. 7 (2019): 4712-4721.
48. **Mohamed, Mohamed A.**, Tao Chen, Wencong Su, and Tao Jin. "Proactive resilience of power systems against natural disasters: A literature review." *IEEE Access* 7 (2019): 163778-163795.
49. Wang, Q., Jin, T., **Mohamed A. Mohamed** & Chen, T. (2019). A Minimum Hitting Set Algorithm With Prejudging Mechanism for Model-Based Fault
50. Rezk, Hegazy, Mohamed R. Gomaa, and **Mohamed A. Mohamed**. "Energy performance analysis of on-grid solar photovoltaic system-a practical case study." *International Journal of Renewable Energy Research (IJRER)* 9, no. 3 (2019): 1292-1301.
51. Avatefipour, Omid, Ameena Saad Al-Sumaiti, Ahmed M. El-Sherbeeney, Emad Mahrous Awwad, Mohammed A. Elmeligy, **Mohamed A. Mohamed**, and Hafiz Malik. "An intelligent secured framework for cyberattack detection in electric vehicles' CAN bus using machine learning." *IEEE Access* 7 (2019): 127580-127592.
52. Jin, Tao, Jintao Guo, **Mohamed A. Mohamed**, and Mengqi Wang. "A novel model predictive control via optimized vector selection method for common-mode voltage reduction of three-phase inverters." *IEEE Access* 7 (2019): 95351-95363.

53. Al-Saud, Mamdooh, Ali M. Eltamaly, **Mohamed A. Mohamed**, and Abdollah Kavousi-Fard. "An intelligent data-driven model to secure intravehicle communications based on machine learning." *IEEE Transactions on Industrial Electronics* 67, no. 6 (2019): 5112-5119.
54. Jin, Tao, Qiangguang Li, and **Mohamed A. Mohamed**. "A novel adaptive EEMD method for switchgear partial discharge signal denoising." *IEEE Access* 7 (2019): 58139-58147.
55. **Mohamed, Mohamed A.**, Ahmed A. Zaki Diab, Hegazy Rezk, and Tao Jin. "A novel adaptive model predictive controller for load frequency control of power systems integrated with DFIG wind turbines." *Neural Computing and Applications* (2019): 1-11.
56. Chen, Jian, Tao Jin, **Mohamed A. Mohamed**, and Mengqi Wang. "An adaptive TLS-ESPRIT algorithm based on an SG filter for analysis of low frequency oscillation in wide area measurement systems." *IEEE Access* 7 (2019): 47644-47654.
57. **Mohamed, Mohamed A.**, Ameena Saad Al-Sumaiti, Mohamed Krid, Emad Mahrous Awwad, and Abdollah Kavousi-Fard. "A Reliability-Oriented Fuzzy Stochastic Framework in Automated Distribution Grids to Allocate μ -PMUs." *IEEE Access* 7 (2019): 33393-33404.
58. Wang, Qiuji, Tao Jin, and **Mohamed A. Mohamed**. "An innovative minimum hitting set algorithm for model-based fault diagnosis in power distribution network." *IEEE Access* 7 (2019): 30683-30692.
59. **Mohamed, Mohamed A.**, Ali M. Eltamaly, Abdulrahman I. Alolah, and A. Y. Hatata. "A novel framework-based cuckoo search algorithm for sizing and optimization of grid-independent hybrid renewable energy systems." *International journal of green energy* 16, no. 1 (2019): 86-100.
60. **Mohamed, Mohamed A.**, Ahmed A. Zaki Diab, and Hegazy Rezk. "Partial shading mitigation of PV systems via different meta-heuristic techniques." *Renewable energy* 130 (2019): 1159-1175.
61. **Mohamed, Mohamed A.**, 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.

Publications from (Ph.D.):

62. Eltamaly, Ali M., **Mohamed A. Mohamed**, M. S. Al-Saud, and Abdulrahman I. Alolah. "Load management as a smart grid concept for sizing and designing of hybrid renewable energy systems." *Engineering Optimization* 49, no. 10 (2017): 1813-1828.
63. **Mohamed, Mohamed A.**, Ali M. Eltamaly, and Abdulrahman I. Alolah. "PSO-based smart grid application for sizing and optimization of hybrid renewable energy systems." *PloS one* 11, no. 8 (2016): e0159702.
64. Eltamaly, Ali M., and **Mohamed A. Mohamed**. "A novel software for design and optimization of hybrid power systems." *Journal of the Brazilian Society of Mechanical Sciences and Engineering* 38, no. 4 (2016): 1299-1315.
65. Eltamaly, Ali M., **Mohamed A. Mohamed**, and Abdulrahman I. Alolah. "A novel smart grid theory for optimal sizing of hybrid renewable energy systems." *Solar Energy* 124 (2016): 26-38.
66. **Mohamed, Mohamed A.**, 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, no. 6 (2015): 063128.
67. Eltamaly, Ali M., **Mohamed A. Mohamed**, and Abdulrahman I. Alolah. "A smart technique for optimization and simulation of hybrid photovoltaic/wind/diesel/battery energy systems." In 2015 IEEE International Conference on Smart Energy Grid Engineering (SEGE), pp. 1-6. IEEE, 2015.
68. **Mohamed, Mohamed A.**, Ali M. Eltamaly, Hassan M. Farh, and Abdulrahman I. Alolah. "Energy management and renewable energy integration in smart grid system." In 2015 IEEE international conference on smart energy grid engineering (SEGE), pp. 1-6. IEEE, 2015.

69. Eltamaly, Ali M., Khaled E. Addoweesh, Umar Bawa, and **Mohamed A. Mohamed**. "Economic modeling of hybrid renewable energy system: a case study in Saudi Arabia." *Arabian Journal for Science and Engineering* 39, no. 5 (2014): 3827-3839.
70. Eltamaly, Ali M., and **Mohamed A. Mohamed**. "A novel design and optimization software for autonomous PV/wind/battery hybrid power systems." *Mathematical Problems in Engineering* 2014 (2014).
71. Eltamaly, Ali M., Khaled E. Addoweesh, Umar Bawah, and **Mohamed A. Mohamed**. "New software for hybrid renewable energy assessment for ten locations in Saudi Arabia." *Journal of Renewable and Sustainable Energy* 5, no. 3 (2013): 033126.
72. **Mohamed A. Mohamed**, Eltamaly, A. M., Farh, H. M. (2012). Wind energy assessment for five locations in Saudi Arabia. 2012 International Conference on Future Environment and Energy (ICFEE 2012,) IPCBEE (2012) © (2012)IACSIT Press, , February 26-28, 2012, Singapore.

Publications from (M.Sc. thesis):

1. **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.
2. **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:

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

Languages:

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

Skill Set:

1. Programming with GAMS
2. Programming with MATLAB/SIMULINK.
3. Programming with Languages (VC, VB, FORTRAN).
4. AUTOCAD.
5. PLC and SCADA.
6. PIC Microcontroller Programming.

Training and Courses:

1. 7/2008 - 8/2008 Siemens Lab.- Ain Shams University.
2. 28/8/2007 - 30/8/2007 Faculty and Leadership Development project (FLDP) Attending a course in How to Use Technology in Teaching (T3).
3. 21/8/2007 - 23/8/2007 Faculty and Leadership Development project (FLDP) Attending a course in Quality Assurance (D3).

4. 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 and Graduate Courses:

1. Renewable Energy Technologies
2. Energy Management
3. Energy Efficiency
4. Energy Utilization
5. Energy Conversion
6. Electrical Machine
7. Electrical Circuits
8. Measurement and Instrumentation
9. Electrical Machines and Control
10. Classic Control
11. Power Electronics
12. PLC Programming and Applications
13. Protection
14. Design of Overhead Transmission Line
15. Underground Power Cables
16. Electrical Safety.

Guest Editor:

International Journal of Photoenergy:

Special Issue on: *Power Electronic Converters and Control for PV Applications*

Submission Deadline: August 2021

Yours,

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