

CURRICULUM VITAE

NAME: Prof. Omar Hanafy Abdalla

CURRENT POSITION: Professor,

ADDRESS: Faculty of Engineering, 1 Sherief Street, Helwan,
P.O. Technology, P.C.: 11792,
Cairo, Egypt.

Mobile: 002-01121001030

Home: 002-02-26067834

E-Mail: ohabdalla@ieee.org

Web Site: <http://works.bepress.com/omar>



DATE AND PLACE OF BIRTH: 11th May, 1945, Cairo, Egypt.

QUALIFICATIONS

1. Ph. D. in Electrical Engineering, University of Liverpool, England, 1979.
2. M. Sc. in Electrical Power Engineering, University of Helwan, Egypt, 1976.
3. B. Sc. in Electrical Power Engineering, H. I. I., Port Said, Egypt, 1967.

RESEARCH FIELD OF INTEREST

1. Electric Power Systems (Modelling, Planning, Control and Stability).
2. Automatic Control Engineering.
3. Renewable Energy Systems.

EMPLOYMENT HISTORY

<u>POSITION</u>	<u>PLACE</u>	<u>DATES</u>
Engineer	Industrial Technical Institute, Cairo	1967 - 1970
Demonstrator	Faculty of Engineering and Technology, University of Helwan	1970 - 1976
Lecturer	Faculty of Electronics Engineering, Minoufiya University	1976 - 1980
Lecturer	Faculty of Engineering and Technology, Minoufiya University	1980 - 1981
Lecturer	Faculty of Engineering and Technology, University of Helwan	1981–1983
Associate Professor	" " "	1983 - 1987
Professor	" " "	June, -1987
Head of Department	" " "	1987 - 1988
Leave to KSA	College of Technology, Jeddah, K. S. A.	1988 - 1993
Professor	Faculty of Engineering, University of Helwan	1993 - 1997
Vice Dean	Faculty of Engineering, University of Helwan	1997 - 2002
Dean	" " "	2002 - 2005
Professor	" " "	2005 - 2007
Advisor	Oman Electricity Transmission Company	2007 – 2014
Professor	Faculty of Engineering, University of Helwan	2014 – Now.

SCIENTIFIC PRIZES

- (1) The Prize of the State in Engineering Sciences, Academy of Scientific Research and Technology, Egypt, 1984.
- (2) The First Class Merit in Sciences and Arts, President of ARE, 1985.
- (3) Helwan University Appreciation Prize in "Engineering Sciences and Technology" for the academic year 2006/2007.

FUNDED RESEARCH:

1. Principal Investigator, "Economical Lighting of Helwan Industrial Plants". This project covers more than 20 major factories in Helwan, which is the largest industrial area in Egypt. This research was supported by the Linking of Egyptian & American Universities Project, Supreme Council of Universities, Cairo, Egypt.
2. Consultant, "Coordination of Protection System of El-Minoufiya Electrical Distribution Network", with Minoufiya University and the Electricity Board of El-Minoufiya Governorate. This research was supported by the Linking of Egyptian & American Universities Project, Supreme Council of Universities, Cairo, Egypt.
3. Co-Principle Investigator, "On-line Computer Control of a Generating Unit" (jointly with the University of Toledo, U.S.A.) This research project was supported by a grant obtained from the National Science Foundation, U.S.A., US-NSF Grant No. INT-811181
4. Consultant, "Development of the Aluminizing Plant of Kottamia Observatory" National Research Institute of Astronomy and Geophysics.
5. Team Member, "Self-Tuning Programmable Farm Supplied by Renewable Energy", Ministry of High Education and Scientific Research.

SHORT COURSES ATTENDED

1. "Microprocessor School ", University of Liverpool, U.K., July, 1979.
2. "Control Systems-Theory and Applications", Arab School on Science and Technology, Syria, Aug. 29 - Sept. 10, 1981.
3. "The First Symposium and Short Course on Wind Energy", Ministry of Electricity and Energy, Cairo, 1-3 Dec. 1984.
4. "Lighting Engineering Course", Philips-Holland and EIEE, Cairo, 24-27 Feb., 1985.

SUPERVISING RESEARCH STUDENTS:

THESES COMPLETED AND APPROVED

1. "Identification and Optimal Control of a Multimachine Power System"
Ph. D. (jointly with the University of Liverpool, U.K.).
2. "Adaptive Controllers for Turbogenerator Systems"
Ph. D. (jointly with the Queen's University of Belfast, U.K.).
3. "Damping and Synchronizing Torques in a Synchronous Generator"
M. Sc. (Helwan University).
4. "Dynamic Stability of a Wind Turbine Generating System"
M. Sc. (Minoufiya University).
5. "Identification of a Turboalternator System"
M. Sc. (Minoufiya University).

6. "Dynamic Stability of a Multimachine Power System"
M. Sc. (Minoufiya University).
7. "Resultant-Transient Stability of a Synchronous Generator"
M. Sc. (Helwan University)
8. "On-line Computer Control of a Generating Unit"
M. Sc. (jointly with the University of Toledo, U.S.A.)
This research project was supported by a grant obtained from the National Science Foundation, U.S.A., Dr. O. H. Abdalla was the Co-Principle Investigator US-NSF Grant No. INT-811181
9. "Digital Control of an Arc Furnace "
M. Sc. (Helwan University)
10. "Parameter Identification of Dynamical Load Models"
Ph. D. (Jointly with the University of Washington, U.S.A.)
11. "Microprocessor Control of a Doubly-fed Induction Machines"
Ph. D. (Jointly with the University of Toledo, U.S.A.).
12. "Microprocessor Control of a Wind Driven Induction Generator"
Ph. D. (Minoufiya University & Uni. of New Brunswick, Canada)
13. "Microprocessor-based Controller for a Chopper Fed D.C. Motor"
M. Sc. (Helwan University)
14. "Control of a Large-scale System"
M. Sc. (Minoufiya University)
15. "An Expert System for Voltage and Reactive-power Control of the Egyptian Electric Network"
Ph. D. (Jointly with the University of Toledo, U.S.A.)
16. "Computer Control of an Isolated Wind-driven Induction Generator"
Ph. D. (Military Technical College)
17. "Neural Networks for Multi-joint Robot Arm Control "
Ph. D., (Jointly with Wright State University, U.S.A.)
18. "Fuzzy Logic Controller for Maximum Power Extraction from Wind Energy Conversion Systems",
M. Sc. (Helwan University)
19. "Genetic Algorithm of SVC Controllers for Damping Power System Oscillations in a Multimachine Power System",
M. Sc. (Banha Higher Institute of Technology).
20. "Improving the Performance of an Electrostatic Precipitator using an Intelligent Digital Controller", M. Sc. (Helwan University)
21. "Modelling and Analysis of Unified Power Flow Controllers", M. Sc. (Helwan University).

THESES IN PROGRESS

22. "Voltage and Reactive Power Control in Smart Grid", Ph. D. (Helwan University).
23. "Adaptive Control Strategy for Unified Power Flow Controller in Smart Grids", Ph. D. (Helwan University).
24. "Self-Healing Smart Distribution Network", Ph. D. (Helwan University).

LIST OF PUBLICATIONS

PAPERS

- 1) P. A. W. Walker, and O. H. Abdalla: "Discrete control of an A. C. turbogenerator by output feedback", Proc. IEE, Vol. 125, No. (10), pp. 1031-1038, 1978.
- 2) O. H. Abdalla, and P. A. W. Walker: "Optimal control of a micro-alternator with output feedback", Proc. The 23rd Universities Power Engineering Conference, Heriot Watt University, Scotland, U. K., Paper No. 4B.2, April 1978.
- 3) O. H. Abdalla, and P. A. W. Walker: "Optimal control of a laboratory power system model with Output feedback", IEEE PES Summer Meeting Vancouver, Canada, Paper A79 45 1-6 July, 1979
- 4) O. H. Abdalla, and P. A. W. Walker: "On-line optimal control of a micromachine system", Proc. The 1st Scientific Conference of Egyptian Graduates Abroad" London, England, Paper No. 21, pp. 279-290, March 1979.
- 5) O. H. Abdalla, and P. A. W. Walker: "Identification and control of a micro alternator with output feedback", Proc. The 15th Universities Power Engineering Conference, University of Leicester, England, paper No. 6BI, March, 1980.
- 6) T. A. El-Tablawi, and O. H. Abdalla: Modeling and dynamic stability of a hydroelectric power plant", Proc. International Federation of Automatic Control, IFAC Workshop on Control Technology for Developing Countries, Cairo, Egypt, pp.229-238, Sept.1980.
- 7) O. H. Abdalla, and P. A. W. Walker:" Identification and optimal output control of a laboratory power system", Proc. IEE, Vol. 127, Pt. D, pp. 237-244, Nov., 1980.
- 8) O. H. Abdalla, and T. A. El-Tablawi: "Dynamic stability of a hydroelectric power station with distributed-parameter penstock", Proc. The 16th Universities Power Engineering Conference, University of Sheffield, England, paper No. A 3, 4 April, 1981.
- 9) B. W. Hogg, P. A. W. Walker, O. H. Abdalla, and M. M. Sharaf: "Approaches to modeling and control of a micro-alternator system", Int. J. Control, Vol. 33, pp. 413-432, March, 1981.
- 10) O. H. Abdalla, and M. F. Hassan: "Digital control of a turbo-generator system", Egyptian Journal of Operations Research and Applied Statistics, Vol. 8 No.1, pp. 241-247, Feb., 1982.
- 11) O. H. Abdalla: Modeling and optimal control design of a micro-alternator system", International Journal of Modeling & Simulation, Vo. 2, No. 4, pp. 226-229, 1982.
- 12) P. A. W. Walker, R. G. Cheetham, and O. H. Abdalla: "Simulation studies of control system design in a power system environment", Proc. International AMSE Conference, (Modeling & Simulation), Paris-Sud, Vol. 5, Group 5, pp. 97-104, July, 1982.
- 13) O. H. Abdalla, S. A. Hassan, and E.S. Abd El-Aziz: "Comparison of online identification methods for a micromachine system", Proc. The 17th Annual Conference on Statistics, Computer Science, O.R. & Math., Cairo Univ., Vol. (3) , pp.61-81,Dec.,1982.
- 14) O. H. Abdalla, S. A. Hassan, and G. E. Aly: "Effects of system parameters on the dynamic Stability of a wind turbine generating system" Egyptian Journal of Operations Research and Applied Statistics, Vol. 9, No. 1, pp. 421-437, Feb. 1983.

- 15) O. H. Abdalla, S. A. Hassan, and E.S. Abd El-Aziz: "Identification of a closed-loop turbo-generator system", Proc. IASTED International Symposium, Applied Informatics, Lille, France, pp. 165-168, March, 1983.
- 16) O. H. Abdalla, S. A. Hassan, and N. T. Tweig: "Stabilization of a two-machine power system" Proc. IASTED International Symposium, Applied Informatics, Lille, France, pp.221-224, March 1983.
- 17) M. Serag, O. H. Abdalla, M. L. El-Sayed, and P. A. W. Walker: "The application of modern control techniques to a hydro-thermal power system", Proc. The 18th Universities Power Engineering Conference, University of Survey, England, pp. 507-512, April, 1983.
- 18) O. H. Abdalla, S. M. Z. Sharaf, M. L. El-Sayed, and B. W. Hogg: "Adaptive control a turboalternator system", Proc. IEEE MELECON' 83, Athens, Greece, Paper No. D 5.0 8 May, 1983.
- 19) O. H. Abdalla, S. A. Hassan, and N. T. Tweig: "Coordinated stabilization of a multimachine power system", IEEE Trans. On Power Apparatus and System, Vol. PAS-103, No. 3, pp. 483-494, March, 1984.
- 20) S. M. Osheba, and O. H. Abdalla: "Modeling of a turbogenerator prime-mover for control and stability studies", AMSE Modeling, Simulation & Control, B, Vol. 1, No. 3, pp. 41-50, France, 1984.
- 21) S. M. Z. Sharaf, B. W. Hogg, O. H. Abdalla, and M. L. El-Sayed: "Adaptive control of a turbo-generator", Proc. The 19th Universities Power Engineering Conference, UPEC'84, University of Dundee, Scotland, U.K., paper No. 7, 1 April, 1984.
- 22) O. H. Abdalla, M. I. El-Sayed, and W. M. Refaey: "On-line calculation of damping and synchronizing torques in a synchronous generator", Proc. of the 19th Power Engineering Conference, UPEC'84, University of Dundee, Scotland, U.K., paper No. 7, 3 April, 1984.
- 23) O. H. Abdalla, S. A. Hassan, and G. E. M. Aly: " Small disturbance stability of a wind turbine generating unit", Proc. 19th Universities Power Engineering Conference, UPEC'84, University of Dundee, Scotland, U.K., paper No. 17, 6 April, 1984.
- 24) M. L. El-Sayed, O. H. Abdalla, and W. M. Refaey: "Damping and synchronizing torques in a synchronous generator with an optimal excitation controller ", Proc. of the International Conference on Electrical Machines, Part 3, pp. 948-951, Lausanne, Switzerland, September, 1984.
- 25) M. Serag, P. A. W. Walker, O. H. Abdalla, and M. L. El-Sayed: "Performance of a multi-machine power system with optimal output control", Proc. of the International Conference on Electrical Machines, Part 3, pp. 983-986, Lausanne, Switzerland, Sept., 1984.
- 26) O. H. Abdalla, and S. M. Osheba: "Computer control of a turbo-generator system with a single-stage output feedback strategy", AMSE Modeling, Simulation & Control, B, Vol. 2, No. 3, pp. 1-17, France, 1985.
- 27) M. G. Abdel Khalik, O. H. Abdalla, and A. M. Nour-Eldeen: "Simulation of pole-slipping tests on a large synchronous generator", Proc of the 4th International Symposium on Modeling, Identification and Control, MIC'85, Grindelwald, Switzerland, pp. 258-261, Feb. 19-22, 1985.
- 28) Z. M. El-Sayed, O. H. Abdalla, and S. M. Osheba: "Gain-scheduling adaptive excitation control of a turbogenerator", Proc of the 4th International Symposium on Modeling, Identification and Control, MIC'85, Grindelwald, Switzerland, pp. 253-257, Feb, 19-22, 1985.

- 29) S. M. Osheba, and O. H. Abdalla: "Identification and optimal control of a generating unit in an interconnected system", *Electric Machines and Power Systems*, Vol. 10, No. 3, U.S.A., pp. 221- 237, 1985.
- 30) S. M. Z. Sharaf, B. W. Hogg, O. H. Abdalla, and M. L El-Sayed: "Model following adaptive control of a turbogenerator system", *Proc. of the 20th Universities Power Engineering Conference, UPEC'85, Huddersfield Polytechnic, England*, pp. 349-352, April 2-4, 1985.
- 31) M. Serag, P. A. W. Walker, O. H. Abdalla, and M. L. El-Sayed: "Modelling and optimal output control of a multi-machine power system", *Proc. of the 20th Universities Power Engineering Conference, UPEC'85, Huddersfield Polytechnic, England*, pp. 438-441, April 2-4, 1985.
- 32) S. M. Sharaf, B. W. Hogg, O. H. Abdalla, and M. L. El-Sayed: "Model reference adaptive control for a turbogenerator", *Proc. of the IEE International Conference, "Control 85", University of Cambridge, England*, 9-11 July, 1985.
- 33) O. H. Abdalla, S. A. Hassan, and G. E. E. M. Ali: "Blade pitch control of a wind-turbine generator system", *Proc. of the First Conference on Aeronautical Sciences & Aviation Technology, Military Technical College, Cairo, Egypt*, Vol. III, pp.907-916, May, 1985.
- 34) S. M. Sharaf, B. W. Hogg, O. H. Abdalla, and M. L. El-Sayed: "Multi-variable adaptive controller for a turbogenerator", *Proc. IEE*, Vol. 133, Part D, No. 2, pp. 83-89, March 1986.
- 35) O. H. Abdalla, M.G.E. Abdelkhalek, and A. E. Nour El-Din: "Effect of exciter and governor on the resultant stability of a turbogenerator" *Proc. of the 21st Universities Power Engineering Conference, Imperial College, London, England*, pp. 9-12 , April, 1986.
- 36) S. M. Wasfy, O. H. Abdalla, M. G. E. Abdelkhalek, and A. A. El-Samahy: "Microprocessor speed control of a d. c. motor" *Proc. of the Second Conference on Aeronautical Sciences & Aviation Technology, Military Technical College, Cairo, Egypt*, Vol. III, pp. 1287-1296, April, 1987.
- 37) S. M. W. Ahmed, O. H. Abdalla, M. L. El-Sayed, M. G. E. Abdelkhalek, and A. A. El-Samahy: "Closed loop speed control of a dc motor by employing a microcomputer", *Engineering Research Bulletin*, Vol.4, University of Helwan, pp. 27-51, 1988.
- 38) H. K. Ahmed, F. Bendary, M. A. Shanab, and O. H. Abdalla: "Effect of core-losses on steady-state performance of a self-excited induction generator", *Proc. MEPCON-89*, Vol. 1 pp. 36-40, Cairo, Egypt, Jan. 1989.
- 39) H. K. Ahmed, F. Bendary, M. A. Shanab, and O. H. Abdalla: "A simplified approach for steady-state analysis of isolated self-excited induction generator", *Proc. Third ASTA Conference*, Vol.No.3, pp .991-1003, Military Technical College, Cairo, Egypt, April 1989.
- 40) E. S. Abdin, A. M. Sharaf, R. E. Burrige, and O. H. Abdalla : "Wind energy conversion using a synchronous generators", *Proc. 3rd European Conference on Power Electronics and Applications*, Achen, Germany, Vol. II, pp. 893-897, Oct., 1989.
- 41) S. M. Sharaf, B. W. Hogg, and O. H. Abdalla: "Real-time adaptive controllers for a turbine generator", *Int., J. Control*, Vol. 50, No. 2, pp. 603-626, 1989.
- 42) P. A. W. Walker, A. M. Serag, and O. H. Abdalla: "Integrated excitation and turbine control in a multimachine power system" *IEE Proc.* Vol.136, Pt. C., No. 6, pp. 331-340, Nov., 1989.

- 43) O. H. Abdalla, and M. G. E. Abdelkhalek: "Economical lighting of industrial plants", Proc. First Saudi Symposium on Energy, Utilization & Conversation, Jeddah, K.S.A., Vol.2, pp. 41-50 March, 1990.
- 44) O. H. Abdalla, A. M. Serag, and P.A.W. Walker: "Modeling and optimal output feedback control of a hydro-thermal power system", Proc. First Saudi Symposium on Energy, Utilization & Conversation, Jeddah, K.S.A., Vol.2, pp. 375-381, March 1990.
- 45) W. M. Refaey, A. A. Ghandakly, A. M. M. Azzouz, I. H. Khalifa, and O. H. Abdalla: "A systematic sensitivity approach for optimal reactive power planning", Proceedings of the Twenty-Second Annual, North American Power Symposium, Alabama Section of IEEE, Auburn Alabama, pp. 283-292, October 15-16, 1990.
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=151381&isnumber=3974>
- 46) E. S. Abdin, A. M. Sharaf, and O. H. Abdalla: "Wind energy conversation using a synchronous generator", Proc. 25th Universities Power Engineering Conference, UPEC'90 RGIT Aberdeen, U.K., pp. 719-722, 12-14 Sept., 1990.
- 47) W. M. Refaey, A. A. Ghandakly, A. M. M. Azzouz, I. F. Khalifa and O. H. Abdalla: "An expert system for real and reactive power dispatch of power system", 99th Annual Meeting, The Ohio Journal of Science, Vol. , No. 2, April 27-29, 1990.
- 48) F. Bendary, F. A. Khalifa, and O. H. Abdalla: "Adaptive control of a wind driven induction generator", Proc. Cairo Third International Conference & Exhibition, Computer Applications In Industry, Ain Shams University, Cairo, Egypt, 25-28 Dec., 1994.
- 49) W. M. Refaey, A. A. Nour- Eldeen, and O. H. Abdalla: "Improving transient voltage performance by static VAR compensation in a multimachine power system", Proc. Al-Azhar Engineering Fourth International Conference, AEIC'95, Cairo, Egypt, pp.54-64, 16-19 Dec., 1995.
- 50) R. S. Ahmed, K. S. Rattan, and O. H. Abdalla: "Adaptive neural network for identification and tracking control of a robotic manipulator", Proc. IEEE NAECON, Dayton OH, U.S.A., pp. 601-609, 22-26 May, 1995.
- 51) A. M. Abdel Ghany, and O. H. Abdalla: "PID Load-frequency controllers for a hydrothermal power system", Proc. Fourth Middle East Power Systems Conference MEPCON'96, Luxor, Egypt, pp. 235-239, 3-5 Jan., 1996.
- 52) A. A. Nour Eldeen, W. M. Refaey, and O. H. Abdalla: "Identification and static VAR control of a multi-machine power system", Proc. Fifth International Middle East Power System Conference, Alexandria, Egypt, Vol.1, pp. 16-20, 4-6 Jan., 1997.
- 53) M. Abdel Ghany, and O. H. Abdalla: "I and PID load frequency controllers for multi-area power system", Proc. Fifth International Middle East Power System Conference, MEPCON'97, Alexandria. Egypt, Vol.1, pp. 6-10, 4-6 Jan., 1997.
- 54) A .M. Abdel Ghany, M. E. Bahgat, and O. H. Abdalla : "Decentralized pole placement load frequency controller for a multi-area power system", Proc. International Conference on Large Electric systems, CIGRE Regional Meeting for the African Continent, Vol. 1, paper II-303, Cairo Egypt, 27-30 Sept., 1997.
- 55) M. E. Bahgat, M. A. El-Sharkawi, and O. H. Abdalla: "Aggregation of power system dynamic loads", Proc. Society of Electrical Engineers (S.E.E.) Symposium on Electrical Power Distribution Systems in Egypt, Cairo, Egypt, pp. 67-76, 8 Oct., 1997.
- 56) O. H. Abdalla, A. M Abdel Ghany, and M. G. E Abdelkhalek: "Economical Lighting of Industrial Plant's", Proc. Symposium of Electrical Power Distribution System in Egypt, Society of Electrical Engineers, Egyptian Society of Engineers, pp. 67-76, October 8, 1997.

- 57) M. Abdel Ghany, O. H. Abdalla, and I. H. Khalifa: "Digital control of an arc furnace", Proc. Society of Electrical Engineers (S.E.E.) Symposium on Modern trends of automatic control applications in industry, Cairo, Egypt, pp. 31-47, 27 Dec., 1997.
- 58) R. S. Ahmed, and O. H. Abdalla: "Real-time control of a robot arm using a neural network", Proc. Society of Electrical Engineers (S.E.E.) Symposium on Modern Trends of Automatic Control Applications in Industry, Cairo, Egypt, pp.98-108, 27 Dec., 1997.
- 59) R. S. Ahmed, and O. H. Abdalla: "Adaptive neural network for real-time tracking control of a drive system", Proc. 1st International Conference on Electrical Engineering, IEENG, Military Technical College Cairo, Egypt, 24-26 March, 1998.
- 60) O. H. Abdalla, A. M. Abdel Ghany, and M. F. Morsy: "Problems of industrial Lighting Systems with Components of Different Origins", (S.E.E.) Symposium on Local Manufacturing of Electrical Equipment, Cairo, Egypt, pp. 5-14, 15 June, 1998.
- 61) O. H. Abdalla: "Local Manufacturing of Lighting Systems Components", Proc. of the Third National Symposium on Local Manufacturing of Spare Parts and Production Lines and its Impacts on Industrial Development in Egypt, University of Helwan, Cairo, Egypt, pp. 1-18, Jun 14-15, 1999.
- 62) M.E. Bahgat, and O.H. Abdalla: "State Feedback Controller of a Wind Driven Synchronous Generator", Proc. of the Fourth National Symposium on Energy Quality Conservation and its Effects on Development with Future Vision for New and Renewable Energy Utilization in Egypt, University of Helwan, Cairo, Egypt, pp. 146-155, Dec. 5-6, 1999.
- 63) O. H. Abdalla, A. M. Abd El-Ghany, and M. F. Morsy: "Problems of Industrial Lighting Systems with Components of Different Origins", Proc. of the Fourth National Symposium on Energy Quality Conservation and its Effects on Development with Future Vision for New and Renewable Energy Utilization in Egypt, University of Helwan, Cairo, Egypt, pp. 156-165, Dec. 5-6, 1999.
- 64) R. S. Ahmed, and O. H. Abdalla: "Adaptive Neuro-Fuzzy tracking Controller for a Drive System", Proc. of Al-Azhar Engineering Sixth International Conference, pp.102-110, Sept 1-4, 2000.
- 65) A. A. Nour El-Deen, W. M. Refaey, and O. H. Abdalla: "Coordination of Compensators in a multi-machine Power system", Proc. Seventh International Middle East Power Systems Conference, pp. 201-206, Ain Shams University, Cairo, Egypt, March 28-30, 2000.
- 66) R. S. Ahmed, and O. H. Abdalla: "Application of a rapid neural network for identification of a micro-machine system", Proc. 8th International Middle East Power Systems Conference, MEPCON'2001, University of Helwan, Cairo, Egypt, pp.705-710, Dec. 29-31, 2001.
- 67) F. M. El-Kady, M. Y. Soliman, S. M. Sharaf, and O. H. Abdalla: "Fuzzy logic controller for maximum power extraction from wind energy conversion system", Scientific Bulletin, Faculty of Engineering, Ain Shams University, Part-II, Electrical Engineering, Vol. 38, No. 2, pp. 515-534, June 2003.
- 68) W. M. Refaey, O. H. Abdalla, M. K. Saad, and G. M. Sarhan: "Genetic algorithm aided design of power system stabilizers in a multi-machine power system", Proc. of the Ninth International Middle East Power Systems Conference, MEPCON'2003, Minoufiya University, Shebin El-Kom, Egypt, pp. 307-313, Dec. 16-18, 2003.
- 69) R. S. Ahmed, S. M. Sharaf, and O.H. Abdalla: "Function approximation and system identification based on fuzzy rule base generated from input output data", Proc. of the

- Ninth International Middle East Power Systems Conference MEPCON'2003, Minoufiya University, Shebin El-Kom, Egypt pp. 315-321, Dec. 16-18, 2003
- 70) O. H. Abdalla and Y. Shankir: "Modern lighting systems for factories" Proc. of the Symposium on Modern Engineering Techniques for Al-Obour City Factories, University of Helwan, Egypt, pp. 5-3, Dec. 2004.
 - 71) F. I. Ahmed, and O. H. Abdalla: "Engineering education in Egypt", Proc. Symposium on Private Engineering Education and its Impacts in the Arab World", Cairo, Egypt, pp. 19-32, Aug. 30-31, 2005.
 - 72) O. H. Abdalla, W. M. Refaey, M. K. Saad, and G. M. Sarhan: "Genetic algorithm aided design of SVC in a multimachine power system", Proc. 10th International Middle East Power Systems Conference, Port Said, Egypt, Vol. 2, pp. 915-921, Dec. 13-15, 2005.
 - 73) O. H. Abdalla, S. M. Sharaf, and H. F. Feshara: "Identification of a high voltage unit in an electrostatic precipitator", Proc. 11th International Middle East Power Systems Conference, Minia University, Egypt, Vol. 1, pp. 240-245, Dec. 19-21, 2006.
 - 74) O. H. Abdalla: "Design of static VAR compensators in a multimachine power system using genetic algorithms" The First Conference on Industrial Applications of Energy Systems (IAES'07), Sohar University, Sultanate of Oman, 3-4 April, 2007.
 - 75) O. H. Abdalla, S. M. Sharaf, and H. F. Feshara: "Development of measuring and computer interface system for an industrial electrostatic precipitator", Proc. Second Ain Shams International Conference on Environmental Engineering, Cairo, Egypt, Vol. IV, pp. 203-215, 10-12 April, 2007.
 - 76) O. H. Abdalla: "Genetic algorithms aided design of PSS and SVC controllers in a multimachine power system", Proc. The 3rd GCC CIGRE International conference and 12th Exhibition for Electrical Equipment, Dubai, U. A. E., pp. 107-114, 5-7 Nov., 2007.
 - 77) O. H. Abdalla, M. E. Bahgat, A. M. Serag, and M. A. El-Sharkawi: "Dynamic load modelling and aggregation in Power System Simulation Studies", The 12th International Middle East Power System Conference (MEPCON 2008), South Valley University, Aswan, Egypt, pp. 270-276, March 12-15, 2008.
 - 78) O. H. Abdalla, M. E. Bahgat, and M. A. El-Sharkawi: "Aggregation of Static and Dynamic Loads in Power System Studies", Proc. of the Second Conference on Industrial Applications of Energy Systems (IAES 2008), Sohar University, Sultanate of Oman, pp. 132-141, April 1-2, 2008.
 - 79) O. H. Abdalla, Th. M. Alkhusaibi, M. Awlad-Thani, and M. N. Al-Mazrouey: "Restoration of a 132 kV overhead transmission line affected by tropical cyclone Gonu in Oman", IEEE PES Transmission and Distribution Conference and Exposition, Chicago, Illinois, USA, April 21-24, 2008.
 - 80) O. H. Abdalla, W. M. Refaey, M. K. Saad, and G. Sarhan: "Coordinated design of power system stabilizers and static VAR compensators in a multimachine power system using genetic algorithms", Presented at the 6th International Conference on Electrical Engineering, ICEEENG 2008, Military Technical College, Cairo, Egypt, 27-29 May, 2008.
 - 81) O. H. Abdalla, S. M. Sharaf, and H. F. M. Feshara: "Computer Interface System for a High Voltage Unit of an Industrial Electrostatic Precipitator" Proc. International Conference on Communications, Computer and Power, ICCCP09, Sultan Qaboos University, Muscat, Oman, pp. 305-309, 15-18 February 2009.
 - 82) O. H. Abdalla, M. A. E. Ghazi, L. M. Lotfy, and N. A. M. Hasan: "Steady State Analysis of Unified Power Flow Controllers" International Conference on

- Communications, Computer and Power, ICCCP09, Sultan Qaboos University, Muscat, Oman, 15-18 February 2009.
- 83) Omar H. Abdalla, Hilal Al-Hadi, and Hisham Al-Riyami: "Development of a Digital Model for Oman Electrical Transmission Main Grid", Proc. of the 2009 International Conference on Advanced Computations and Tools in Engineering Applications, ACTEA, pp. 451-456, Notre Dame University, Louaize, Lebanon, 15-18 July, 2009.
 - 84) O. H. Abdalla, M. Awlad-Thani, M. Al-Wardi, Kh. Al-Qaidi, S. Al-Farsi, I. Al-Balushi, and S. Al-Mahdoori: "Key Performance Indicators of a Transmission System", Proc. of the 5th GCC Cigre International Conference, GCC Power 09, Riyadh, KSA, 19-21 October 2009.
 - 85) O. H. Abdalla, M. A. E. Ghazy, and N. A. M. Hassan: "Stability Analysis of a Unified Power Flow Controller", Proc. of the 13th International Middle East Power System Conference (MEPCON 2009), Assiut University, Assiut, Egypt, pp. 593-597, 20-23 December, 2009.
 - 86) A. A. Elbaset, and O. H. Abdalla: "Modeling and Control of a Wind Farm and Electrolyzer System Connected to an Electrical Grid", Proc. of the International Engineering Conference on Hot Arid Regions, IECHAR 2010, King Fisal University, KSA, pp.71-77, 1-2 May 2010.
 - 87) Omar H. Abdalla, Hilal Al-Hadi, and Hisham Al-Riyami: "Performance of Oman Transmission System with Distributed Generation", Proc. of the PEA-AIT International Conference on Energy and Sustainable Development: Issues and Strategies (ESD 2010), Asian Institute of Technology, Chaing Mai, Thailand, 2-4 June 2010.
 - 88) Omar H. Abdalla, Hilal Al-Hadi, and Hisham Al-Riyami: "Limiting Short Circuit Currents in Oman Transmission System", Proc. of the 8th Regional Conference for National Committee of Cigre in the Arab Countries, GCC-Cigre Power 2010, Doha, Qatar, Paper No. B302, pp. 332-341, 18-19 October 2010.
 - 89) Omar H. Abdalla, Hilal Al-Hadi, and Hisham Al-Riyami: "Application of Fault Current Limitation Techniques in a Transmission System", Proc. of the 45th International Universities Power Engineering Conference, Cardiff University, UK, 31st August – 3rd September, 2010.
 - 90) O. H. Abdalla, M. A. E. Ghazy, L.M. Lotfy, and N. A. M. Hassan: "Unified Power Flow Controller with Decoupled State Feedback", Proceedings of the 14th International Middle East Power System Conference (MEPCON 2010), Cairo University, Cairo, Egypt, 19-21 December, 2010.
 - 91) Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, and Hisham Al-Riyami: "Performance of Oman Transmission System with Power Barge and Diesel-Engine Driven Distributed Generation", Presented at the Second International Conference of Energy Engineering (ICEE-2), Aswan, Egypt, 27-29 December, 2010.
 - 92) Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, and Hisham Al-Riyami: "Performance of Oman Transmission System with the 400kV Gulf Cooperation Council Electricity Interconnection", Proceedings of the 2011 IEEE GCC Conference, Dubai, United Arab Emirates, 19-22 February 2011.
 - 93) Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, and Hisham Al-Riyami: "Steady-State and Dynamic Performance of Oman Transmission System with Diesel-Engine Driven Distributed Generation" Proceedings of the "46th International Universities Power Engineering Conference (UPEC 2011)", South Westphalia University of Applied Sciences, Soest, Germany from 5th to 8th September 2011.
 - 94) Omar H. Abdalla, Rashid S. Al-Badwawi, Hilal S. Al-Hadi, and Hisham A. Al-Riyami, and Ahmed Al-Nadabi: "Steady-State and Transient Performances of Oman

- Transmission System with 200 MW Concentrated Solar Power Plant”, Presented at the 10th World Wind Energy Conference & Renewable Energy Exhibition, Cairo, Egypt, 31 October – 2 November 2011.
- 95) Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, Hisham Al-Riyami, Ahmed Al-Nadabi, Karim Karoui, and Ariadne Szekut: “Interconnection of Oman and UAE Electric Power Systems”, Proceedings of the GCC Power 2011 Conference & Exhibition, Kuwait 20– 23, Paper No. A103, November 2011.
 - 96) O. H. Abdalla, Th. Al-Khusaibi, A. Al-Bitashi, A. Kumar, A. Svalovs, P. Watson, and I. Svalova: “Development of Stability Protection Framework in Oman Electricity Transmission System”, Proceedings of the IET Conference, DPSP 2012 – Protecting the Smart Grid, Paper No. O5.2, Birmingham, UK, 23-26 April, 2012.
 - 97) Omar H. Abdalla, Rashid S. Al-Badwawi, Hilal S. Al-Hadi, and Hisham A. Al-Riyami, and Ahmed Al-Nadabi “Steady-State and Transient Performances of Oman Transmission System with 200 MW Photovoltaic Power Plant”, Proceedings of the Second Annual IEEE EnergyTech 2012 Conference, Paper No. 150, Case Western Reserve University, Cleveland, OH, U.S.A., May 29-31, 2012.
 - 98) Omar H. Abdalla, Rashid S. Al-Badwawi, Hilal S. Al-Hadi, and Hisham A. Al-Riyami, and Ahmed Al-Nadabi: “Impact of a 200 MW Concentrated Receiver Solar Power Plant on Steady-State and Transient Performances of Oman Transmission System”, Proceedings of the 2012 IEEE International Power Engineering and Optimization Conference (PEOCO2012), Malacca, Malaysia, 6-7 June 2012
 - 99) Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, Hisham Al-Riyami, Ahmed Al-Nadabi, Karim Karoui, and Sébastien Wagemans: “Defence Plan for Oman-UAE Interconnected Power System”, Proceedings of the GCC Power 2012, Sultanate of Oman, 12-14 November, 2012.
 - 100) Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, Hisham Al-Riyami, Ahmed Al-Nadabi, “Large Solar Power Plant in Oman and its Effect on the Transmission Network”, Al-Khaleej Electricity Magazine, Issue No. 20, pp.15-19, November, 2012.
 - 101) Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, Hisham Al-Riyami, Ahmed Al-Nadabi, and Karim Karoui: “Synchronization Process of Oman and UAE Electric Power Systems”, Proceedings of the 15th International Middle East Power System Conference (MEPCON 2012), Alexandria University, Alexandria, Egypt, Paper ID 238, 23-25 December, 2012.
 - 102) Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, Hisham Al-Riyami, and Ahmed Al-Nadabi: “Weather-Based Ampacity of Overhead Transmission Lines”, Presented at the 4th General Conference of Arab Union for Electricity and Exhibition, Doha, Qatar, 7-9 January 2013.
 - 103) O. H. Abdalla, R. Al-Badwawi, H. Al-Hadi, H. Al-Riyami, A. Al-Nadabi, K. Karoui and A. Szekut: “Voltage & Reactive Power Control in Oman Transmission System”, Proceedings of the 2013 IEEE 7th International Power Engineering Optimization Conference (PEOCO), Langkawi, Malaysia, pp. 496-501, 3-4 June 2013.
 - 104) Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, Hisham Al-Riyami, Ahmed Al-Nadabi, Karim Karoui, and Ariadne Szekut, and Amer Al-Hinai: “Small-Disturbance Stability of Oman/UAE Interconnected System”, Proceedings of the 7th IEEE GCC Conference, pp. 572-577, Doha, Qatar, 17-20 November 2013.
 - 105) O. H. Abdalla, A. Al-Busaidi, H. Al-Hadi, H. Al-Riyami, A. Al-Nadabi, K. Karoui, and A. Szekut: “Dynamic Assessment of Voltage & Reactive Power Control in Oman Transmission System”, Proceedings of the 2014 IEEE 8th International Power

- Engineering Optimization Conference (PEOCO), Langkawi, Malaysia, pp. 546-551, 24-25 March 2014.
- 106) O. H. Abdalla, A. Al-Busaidi, H. Al-Hadi, H. Al-Riyami, A. Al-Nadabi, K. Karoui, and S. Wagemans: "Strategic Defence Plan for Oman-UAE Interconnected Power System", Cigre 2014 Session, Paris, France, 24-29 August 2014.
 - 107) Omar H. Abdalla, Adil Al-Busaidi, Hilal Al-Hadi, Hisham Al-Riyami, and Ahmed Al-Nadabi: "Review of Normal and Infrequent Infeed Loss Risks in Oman Transmission System", Paper No. A003, Proceedings of the GCC Cigre 2014, Al-Manamah, Bahrain, Nov. 2014.
 - 108) Hisham Al-Riyami, Omar H. Abdalla, Adil Al-Busaidi, Ahmed Al-Nadabi, Musabah Al-Siyabi, Meera Al-Abri, Zahra Al-Rawahi, Joseph Dubois, Vincent Lambillon, Shafique Mirza, and Arnaud Bastens: "Development of Transmission System Master Plan of Oman (2014-2030)", Paper No. A036, Proceedings of the GCC Cigre 2014, Al-Manamah, Bahrain, November 2014.
 - 109) Omar H. Abdalla, Hisham Al-Riyami, Adil Al-Busaidi, Ahmed Al-Nadabi, Karim Karoui, and Sébastien Wagemans: "Harmonisation of Under Frequency Load Shedding Plans in Oman-UAE Interconnected Power System", Paper No. 146, Proceedings of the 16th International Middle East Power System Conference (MEPCON 2014), Ain Shams University, Cairo, Egypt, 23-25 December 2014.
 - 110) Hisham Al-Riyami, Adil Al-Busaidi, Ahmed Al-Nadabi, Musabah Al-Siyabi, Meera Al-Abri, Zahra Al-Rawahi, Joseph Dubois, Vincent Lambillon, Shafique Mirza, Arnaud Bastens, and Omar H. Abdalla: "Development of Demand Forecast Model for the Transmission System Master Plan of Oman", Proceedings of the 8th IEEE-GCC Conference and Exhibition, Muscat, Sultanate of Oman, 1-4 February 2015.
 - 111) Jimmy C. -H. Peng, Amer Al-Hinai, Adil Al-Busaidi, Hisham Al-Riyami, Ahmed Al-Nadabi, Omar. H. Abdalla, Rainer Fronius, and Predrag Mikša: "A Review of Reactive Compensation in the Main Interconnected System of Oman", Proceedings of the 8th IEEE-GCC Conference and Exhibition, Muscat, Sultanate of Oman, 1-4 February 2015.
 - 112) O. H. Abdalla, S. M. Sharaf and H. F. Feshara: "Identification and Optimal PI Control of an Electrostatic Precipitator", Proceedings of the Sixteenth International Conference on Aerospace Sciences & Aviation Technology, ASAT-16, Technical Military College, 26 – 28 May, 2015, Cairo, Egypt.
 - 113) Omar H. Abdalla, Hisham Al-Riyami, Adil Al-Busaidi, Ahmed Al-Nadabi, Zahra Al-Rawahi, Musabah Al-Siyabi, Rainer Fronius, and Predrag Mikša: "Reactive Power Compensation in Oman 400kV Transmission System", Applied Mechanics and Materials Vol. 785, August 2015, pp. 455-459, Trans Tech Publications, Switzerland, doi:10.4028 / www.scientific.net/AMM.785.455
 - 114) H. Al-Riyami, A. Al-Busaidi, O. H. Abdalla, A. Al-Nadabi, S. Al-Rawahi, N. Al-Habsi, J. Dubois, and C. Delhaute: "Generation Flexibility Requirements in Oman Electrical System", Proceedings of the GCC Cigre 2015, Jeddah, KSA, 3-5 November 2015.
 - 115) O. H. Abdalla, H. Al-Riyami, A. Al-Busaidi, A. Al-Nadabi, M. Al-Siyabi, Z. Al-Rawahi, R. Fronius, and P. Mikša: "Reactive Power Compensation in the Oman /UAE 220 kV Interconnector", Proceedings of the GCC Cigre 2015, Jeddah, KSA, 3-5 November 2015.
 - 116) H. A. S. Al Riyami, A. G. Kh. Al Busaidi, A. A. Al Nadabi, O. H. Abdalla, K. Al Manthari, B. Hagenkort, and R. Fahmi: "Grid Impact Study of the First Wind Farm Project in Dhofar Transmission System", The 4th International Conference on Renewable Energy: Generation and Applications (ICREGA16), Belfort, France,

February 8-10, 2016.

- 117) Omar H. Abdalla¹, Hisham Al-Riyami, Adil Al- Al Busaidi, Ahmed Al-Nadabi, Alastair De Reuck, and Steven Nutt: “Review of Transmission System Security Standard in Oman”, Proceedings of the 12th GCC Cigre International Conference and 21st Exhibition for Electrical Equipment, GCC Power, Paper B 403, pp. 371-380, 8-10 November 2016.
- 118) H. A. S. Al Riyami¹, A. G. Kh. Al Busaidi, A. A. Al Nadabi, O. H. Abdalla, K. Al Manthari, B. Hagenkort, and R. Fahmi: “Grid Code Compliance for Integrating 50 MW Wind Farm into Dhofar Power Grid”, Proceedings of the 12th GCC Cigre International Conference and 21st Exhibition for Electrical Equipment, GCC Power, Paper A 204, pp. 152-161, 8-10 November 2016.
- 119) H. A. S. Al Riyami, A. G. Kh. Al Busaidi, A. A. Al Nadabi, O. H. Abdalla, K. Al Manthari, B. Hagenkort, S. Mirza, and R. Fahmi: “Power Quality of Dhofar Network with 50 MW Wind Farm Connection”, 2016 Eighteenth International Middle East Power System Conference (MEPCON), Helwan University, Cairo, Egypt, 27-29 December 2016.
- 120) O. H. Abdalla, A. M. Abdel Ghany, and Hady H. Fayek: “Coordinated PID Secondary Voltage Control of a Power System Based on Genetic Algorithm”, 2016 Eighteenth International Middle East Power System Conference (MEPCON), Helwan University, Cairo, Egypt, 27-29 December 2016.
- 121) Ahmed A. Shetaya, Rasha El-Azab, Amr M. Amin, and Omar H. Abdalla: “A Multi-Vision Energy Management Strategy for Smart Grids Using Hierarchical Distributed Model Predictive Control”, Proceedings of the IEEE SoutheastCon, Charlotte NC, USA, Paper ID#: 57, March 30 – April 2, 2017.
- 122) H. A. Al Riyami, A. G. Al Busaidi, M. S. Al Sulaimi, A. A. Al Nadabi, M. N. Al Sayabi, A. S. Al Omairi, and O. H. Abdalla: “Techno-Economic Evaluation of 1500MW Generation Connection to the Main Interconnected Transmission System in Oman”, Proceedings of the 13th GCC Cigre International Conference, GCC Power, Muscat, Sultanate of Oman, Paper A 201, pp. 161-170, 16-18 October 2017.
- 123) Omar H. Abdalla, A. M. Abdel Ghany, and Hady H. Fayek: “Voltage Control by Reactive Power Support from Wind and Photovoltaic Plants in a Smart Grid”, Proceedings of the 13th GCC Cigre International Conference, GCC Power, Muscat, Sultanate of Oman, Paper PPS 201, pp. 789-798, 16-18 October 2017.
- 124) H. A. Al Riyami, A. G. Al Busaidi, A. A. Al Nadabi, M. N. Al Sayabi, A. S. Al Omairi, and O. H. Abdalla: “Techno-Economic Studies for Connecting 1700MW Sohar-3 Power Station to Oman Grid”, 2017 Nineteenth International Middle East Power System Conference (MEPCON), Paper 301, Menoufia University, Egypt, 19-21 December 2017.
- 125) Ahmed A. Shetaya, Amr M. A. Amin, Omar H. Abdalla: “Model Predictive Control Based Power System Operation Planning of Grid Connected High Share Renewable Energy”, Paper 376, 2017 Nineteenth International Middle East Power System Conference (MEPCON), Paper 376, Menoufia University, Egypt, 19-21 December 2017.

OTHER PUBLICATIONS

DISCUSSIONS AND CLOSURES:

- 126) O. H. Abdalla, and S. M. Osheba: “A Discussion on paper 83 SM 404-I, Published with the Paper in the IEEE Trans. on Power Apparatus and System, Vol. PAS-102, No. 12, pp. 3767-3768, Dec. 1983.

- 127) O. H. Abdalla, S. A. Hassan, and N. T. Tweig: "A closure of paper 83 SM 384-5, IEEE Trans. On Power Apparatus and System" Vol. PAS-103, No.3, pp. 492-494, March 1984.
- 128) O. H. Abdalla, S. A. Hassan, and N. T. Tweig: "Coordinated stabilization of a multi-machine power system", A Summary of Technical Paper 83 SM 384-5, IEEE Power Engineering Review, Vol. PER-4, No. 3, pp. 25-26, March 1984.

THESES:

- 129) O. H. Abdalla: "Effects of Speed Governor Control on the Dynamic Stability of Power Systems", M. Sc. Thesis, University of Helwan, Egypt, 1976.
- 130) O. H. Abdalla: "Identification and Optimal Control of A. C. Turbogenerator Systems with Output Feedback", Ph.D. Thesis, University of Liverpool, England, 1979.

INVITED KEYNOTES

- [1] O. H. Abdalla: "Performance of Oman Transmission System with Power Barge and Diesel-Engine Driven Distributed Generation", Invited Keynote, Second International Conference of Energy Engineering (ICEE-2), Aswan, Egypt, 27-29 December, 2010.
- [2] O. H. Abdalla: "Smart Grid – An Overview", Invited Lecture, Recent Trends in Energy Systems Conference (RTES), Cairo, Egypt, 3 October 2015.
- [3] O. H. Abdalla: "Technical Background of Wind Farm Grid Connection Code", Invited Lecture, Recent Trends in Energy Systems Conference (RTES), Cairo, Egypt, 3 October 2015.
- [4] O. H. Abdalla: "Smart Grid Overview and Development", Invited Keynote, the 2015 World Congress on Power and Energy Engineering (WCPEE'15), International Foundation for Modern Education and Scientific Research (INFOMESR), Cairo, Egypt, December 28 - 31, 2015.
- [5] O. H. Abdalla: "Technical Design Specifications and Criteria for Integrating PV Systems into Distribution Networks in Egypt", Keynote Lecture, KL-REN-5, the 1st FUE International Conference on New Energy & Environmental Engineering, Cairo, Egypt, 11-13 April 2016.
- [6] O. H. Abdalla: "Grid Code Requirements for Connecting Solar Power Plants to Electricity Networks in Egypt", Keynote Lecture 4, the 2017 Nineteenth International Middle East Power System Conference (MEPCON), Menoufia University, Egypt, 19-21 December 2017.

INVITED TUTORIALS

- [1] O. H. Abdalla: "Technical Background of Wind Farm Grid Connection Code - A Tutorial Short Course", Invited Tutorial, the 17th International Middle East Power Systems Conference (MEPCON 2015), Mansoura University, 15-17 December 2015.

SCHOLARSHIPS

- 1) A Ph.D. Grant (Governmental Mission from Egypt), to study for a Ph.D. degree in electrical engineering, at the University of Liverpool, England, from 1976 to 1979.
- 2) A grant for practical training in electrical industry in Yugoslavia, for six months, 1964.
- 3) A full scholarship, from Kuwait University, to participate in the 1981 Summer Session on "Control Systems Theory and Applications", which was organized

By the Arab School on Science and Technology, and Hold in Bloudan, Syria,
Aug. 29 to Sept. 10, 1981.

PROFESSIONAL MEMBERSHIP

1. Fellow of the Egyptian Society of Engineers.
2. Vice-President of the Society of Electrical Engineers (Former).
3. Life Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), U.S.A.
4. Chairman of the Permanent Scientific Committee of Electrical Power and Machines Engineering, (Promoting University Staff to Associate Professor Grade), Supreme Council of Universities (2004-2007).
5. Member of Board of Directors, South Cairo Company for Electricity Distribution (2004-2007).
6. Member of Steering Committee, the International Middle East Power Systems Conference.
7. Consulting Engineer, Egyptian Syndicate of Engineers.
8. Member of the Scientific Committee for Promoting Staff Members of El-Tebbin Institute of Metallurgical Studies and Research (2003-2007).
9. Consultant Expert, General Organization of Urban Planning.
10. Member of the Principle Committee of Technology Development, Academy of Scientific Research and Technology (2003-2007).
11. Member of Board and Founders of the "Arab Society of Engineering Programs Accreditation", Cairo, Egypt.

REVIEW SCIENTIFIC RESEARCH:

1. International Reviewer, Proceedings of the IET, UK.
2. International Reviewer, IEEE PES Transactions (Power Systems, Power Delivery), USA.
3. Reviewer of many national and international conferences' papers.
4. Reviewer of various university journals.

Editorial Board Membership:

1. Editorial Board, International Journal of Emerging Power Systems, USA.
2. Editorial Board, Journal of Electrical Systems, Algeria.

SOCIAL ACTIVITIES:

1. Honorary President of Abo Hour Charity Society, Cairo, Egypt.
2. Member of Board and Founders of the Environmental Society, Cairo, Egypt.

LANGUAGES: Arabic and English

MARITAL STATUS: Married

CHILDREN: 2 Sons + 2 Daughters + 12 Grandchildren