

CURRICULUM VITAE

NAME: Prof. Omar Hanafy Abdalla

CURRENT POSITION: System Studies Advisor

ADDRESS: Oman Electricity Transmission Company,
P.O. Box 1224, P.C.: 131, Al-Hamriyah,
Muscat, Sultanate of Oman.

Mobile: 00968-92649686

Office: 00968-24618431

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 (Analysis, Modelling, 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 Emeritus	" " "	2005 - 2007
Advisor	Oman Electricity Transmission Company	2007 – 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.**

INTERNATIONAL RECOGNITION

Biography of Prof. Omar H. Abdalla is listed in:

- 1. "International Who's Who in Engineering", published by the International Biographical Center, Cambridge, England, 1983.**
- 2. "Community Leaders of the World", published by the American Biographical Institute, NC, U.S.A., p. 1, 1986.**
- 3. "Asia's who's who of Men & Women of Achievement & Distinction ", Vol. II p. 188, Published by the Rifacimento Organization, New Delhi, India, 1986.**
- 4. "Biography International ", p.119, Delhi, India, 1988.**
- 5. "The International Directory of Distinguished Leadership", published by the American Biographical Institute, NC, U.S.A.**
- 6. "The International Book of Honor", ABI, NC, U.S.A.**
- 7. "Men of Achievement", Twelfth Edition, International Biographical Center, Cambridge, England.**
- 8. "Five Thousand Personalities of the World "Edition Two, ABI, NC, U.S.A.**
- 9. "Directory of International Biography", Vol. XX, International Biographical Center, Cambridge, England.**
- 10. "Who's Who in the World, 19th Edition, 2002, Marquis Who's who, New Jersey, U.S.A.**

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. (University of Helwan).
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. (University of Helwan)
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. (University of Helwan)
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. (University of Helwan)
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. (University of Helwan)
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. (University of Helwan)
21. "Modelling and Analysis of Unified Power Flow Controllers", M. Sc. (University of Helwan)

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 Surrey, 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.
- 46) E. S. Abdin, A. M. Sharaf, and O. H. Abdalla: “Wind energy conversion 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.90, 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 over head transmission line affected by tropical cyclone Gonu in Oman", IEEE PES Transmission and Distribution Conference and Exposition, Chicago, Illinois, USA, April 21-24, 2008.
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DISCUSSIONS AND CLOSURES:

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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 Egyptian Institute of Electrical Engineers.
3. Senior Member of the Institute of Electrical and Electronics Engineers, 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.
5. Member of Board of Directors, South Cairo Company for Electricity Distribution.
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.
9. Consultant Expert, General Organization of Urban Planning.
10. Member of the Principle Committee of Technology Development, Academy of Scientific Research and Technology.
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. Editorial Board, International Journal of Emerging Power Systems, USA.
4. Reviewer of many national and international conferences' papers.
5. Reviewer of various university journals.

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 - English

RELIGION:

Muslim

MARITAL STATUS:

Married

CHILDREN:

2 Sons (Engineers) + 2 Daughters (Married)