

CURRICULUM VITAE OF

Prof. Dr. Mohamed A. Moustafa Hassan

Personal Information

Name : *Mohamed Ahmed Moustafa HASSAN*
Date of birth : *May 7th, 1954*
Citizenship : *Egyptian*



Present Position:

Professor of Control of Power Systems in Elec. Power Dept.,
Cairo University, Giza, Egypt

Present Address :

Elec. Power & Machines Dept., Cairo University , Giza, Egypt
Mobile (+201004716887) Office (+20235678866)
Web Site: <http://staff.eng.cu.edu.eg/mohamedHassan> and
<http://scholar.cu.edu.eg/?q=mmustafa>

Academic Qualifications

- Ph.D. Electrical Power Engineering, Cairo University, Egypt, 1988.
(Channel system with Wuppertal University - Germany)
- M.Sc. Electrical Power Engineering, Cairo University, Egypt, 1982.
- B.Sc. (Hons.) Electrical Power Engineering, Cairo University, Egypt, 1977.

Scholastic Awards:

- CIDA Scholarship (Canada) for Researchers and Visiting Professors (1989-1991).
- DAAD Scholarship (Germany) for Researchers and Graduate Students (1984-1986).
- Cairo University's Graduate with honor degree award (1977).
- Annual Outstanding Students Award, Cairo University, Egypt (1973-1977).
- Egyptian High School Graduates Award for excelling in Mathematics and Physics (1972).
- Suez Governate Awards, Egypt, in elementary (1966) and junior high certificates (1969).

Academic Positions

- Oct. 2011 – To Date : Professor in Electric Power Department, Cairo University, Egypt.
- Sept 2012 – Jan 2014 : Deputy Manager of Alamieria Integrated Technology Cluster (ITC), Cairo, Egypt.
(**EDF Ministry Cabinet - dealing with different funding bodies**)
- Jun. 2007 – Oct. 2011 : Associate Professor in Elec. Power Dept., Cairo University, Egypt.
- Jan. 2002 – Jun. 2007 : Associate Professor, Computer Dept., JEGC , KSA
- Sept.1999- Aug. 2001 : Associate Professor in AUST, Ajman - UAE
- Oct. 1995 - Sept. 1999 : Associate Professor in TSI, Abu Dhabi, UAE (Programs of City & Guilds, UK).

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- Sept. 1994 - Aug. 1995 : Associate Professor in the Department of Electrical Engineering, UAE University, Al Ain, UAE
- Nov. 1993 - Aug. 1994 : Associate Professor in the Department of Electric Power & Machines, Cairo University, Egypt.
- Oct. 1992 - Nov. 1993 : Assistant Professor in the Department of Electric Power & Machines, Cairo University, Egypt.
- Oct. 1989 - Sept. 1992 : Visiting Assistant Professor in the Department of Electrical and Computer Engineering, University of Calgary, Calgary, AB, CA.
- Mar. 1988 - Sep. 1989 : Assistant Professor in the Department of Electric Power and Machines, Cairo University, Egypt.
- May 1987 - Mar. 1988 : Instructor in the Dept. of Electric Power and Machines, Cairo University, Egypt.
- Oct. 1986 - Apr. 1987 : Research Assistant in BUGH - Wuppertal, Wuppertal, Research project funded by the German Society DFG, F.R. Germany.
- June 1984 - Sep. 1986 : Research Assistant funded by DAAD during my Ph. D. program, BUGH - Wuppertal, Germany.
- Oct. 1977 - May 1984 : Lecturer in the Department of Electric Power and Machines, Cairo University, Egypt.

Attended Practical Training and Training Courses:

- PLC and SCADA Components, ABB, Egypt, 2012
- SCADA Components, Schneider, Egypt, 2011
- SCADA Components, Siemens, Egypt, 2011
- VIEPA PLC and SCADA MOVICON S/W, MAS Trading, Egypt, 2011
- Conference Organization, Cairo University, Egypt, Sept. 2011
- Research writing skills, Cairo University, Egypt, Aug. 2011
- Project Funding, Cairo University, Egypt, July. 2011
- Active Presentation, Cairo University, Egypt, 2009
- E-Learning, Cairo University, Egypt, Nov. 2008
- Quality Standards in Educational Process, Cairo University, Egypt, Aug. 2008.
- Different courses in Computer Programming, Cairo University, Egypt .
- Analysis of Hot Rolling Mills in Iron and Steel Industry, Cairo, Egypt, 1977&1980.
- Testing of different types of controllers, MICAFIL, Zurich, Switzerland, 1979.
- Practical training in steam power station, IAESTE program, Kozani Greece 1976.
- Cable Testing, Cairo Egypt, 1975.
- Practical training in Nasr Petroleum Company, Suez, Egypt, 1974, 1977.

Work Experience:

1) Managerial Activities (mainly at Alamieria ITEC, Cairo, Egypt):

- Running the student activities (Sports, Social, Trips, Open Days) inside the ITEC.
- *Running the student affairs inside ITEC and outside with EDF, and Ministry of Higher Education.*
- *Conflict and problem solving for students with their peers as well as with their Instructors.*
- *Managing Quality Assurance Unit (QAU) according to edexcell standards.*
- *Arranging practical Training for the last year students of ATC during last semester.*
- *Supervising lab. Activities at ITEC.*
- *Supervising Assignments and exams control unit.*
- *Contact person with many industrial companies to arrange practical training for students.*

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- *Member of managerial Council of ITEC.*

2) Theoretical and Practical Teaching for Different Undergraduate Courses:

- *Introduction to Computers (Introduction to PC).*
- *Introduction to Operating Systems (DOS & Windows 95 & Windows 98)*
- *Introduction to MS Office Applications (MS Word & MS Access, MS Excel).*
- *Computer Programming (BASIC, VBASIC, FORTRAN, C, C++, and Assembly).*
- *Computational Techniques (Analogue and Digital).*
- *Computer Aided Techniques.*
- *Logic Design (Combinational & Sequential)*
- *Microprocessors and Computer Architecture.*
- *Microprocessors and Microcontrollers.*
- *Engineering Mathematics and Statistics.*
- *Management Information Systems (MIS).*
- *Engineering Management (Industrial - Project).*
- *Electrical Engineering Fundamentals.*
- *Electric circuits.*
- *Continuous Control Systems.*
- *Modern Control Systems*
- *Digital Control Systems.*
- *Electrical Instrumentation and Measurements.*
- *Digital and Analogue Systems.*
- *Signals and Systems.*
- *Industrial Control Systems (Mainly Programmable Logic Controller (PLC)).*
- *Fuzzy Logic Control.*
- *Artificial Intelligence.*
- *Power system analysis and control.*
- *Electric Machines.*
- *Power production.*
- *Lectures on Voltage and Frequency Control for Isolated Induction Generator driven by Wind.*
- *Lectures and supervision for final B.Sc. projects on :*
 - a) Using PLC in sequential Control (undergraduate, post graduate projects).*
 - b) Fuzzy Logic controller*
 - c) Self tuning Regulator with application on DC motor.*
 - d) Integrated Management Information System (MIS).*
 - e) Educational Automated Information Systems.*
 - f) Design of Web sites.*
 - g) Advanced wheelchair based on PIC Microcontroller (Best in EE, 4th on Faculty of Engineering 2007/2008).*
 - h) Automated Parking System using Atmel Microcontroller.*
 - i) Control of single cabinet elevator using PLC (“Trysim” simulation package was used, as well as H/W implementation for prototype).*
 - j) Simulation for control of double cabinet elevator using PLC (with “Trysim” package).*
 - k) Control of double cabinet elevator using PLC (“Trysim” simulation, as well as H/W implementation for prototype with SCADA system, with Siemens Step 7 200).*
 - l) Water Treatment Plant with SCADA system (ABB PLC was used).*
 - m) Water Treatment Plant with SCADA system (Siemens PLC, Wonder Ware was used).*
 - n) Automation for Backwash of Sand Filters in WTP with SCADA and OPC.*
 - o) Load Frequency Control for isolated two area power system.*

3) Teaching for Postgraduate Courses:

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- *Artificial Neural Networks*
- *Nonlinear Control Systems.*
- *Estimation Theory.*
- *Advanced Control Systems (Fuzzy Logic Control)*
- *Control Components (Sensors and Transducers).*
- *Microprocessors and Microcontrollers.*
- *Computer Programming.*
- *Modelling and Control of Robotics*
- *Industrial Data Communications*
- *Control of Power System*
- *Advanced Programmable Logic Controller (PLC)*
- *Seminars Preparation*

4) Research work on different areas such as :

- *Control of multi Phase Induction Machines*
- *Intelligent Power System Stabilizers, AVR, and Load Frequency Control.*
- *SCADA for Industrial and Electric Power Systems, as well as for Water Treatment Plants*
- *Using of ANFIS technique in Control and Protection systems.*
- *Modelling, simulation, and control of Gas Turbines in CCPP.*
- *Modelling, and control of Heat Recovery Steam Generator (HRSG) in CCPP.*
- *Load frequency Control for single area and multi areas of Power Systems*
- *Application of Artificial Neural Networks in electric loads and wind speed forecasting.*
- *Artificial Intelligence Techniques (Fuzzy, GA, PSO) in Power Systems.*
- *Implementation Of Fuzzy Logic Controller for DC motor using PC.*
- *Implementation of Different Controllers on Single Machine (Micro alternator) Connected to an infinite Bus. TMS320C30 DSP and IBM PC were used in this implementation.*
- *Control of Power Systems using different techniques (Rule Based, Fuzzy Logic).*
- *Associated Problems to Static State Estimation 1985-1988.*
- *State Estimation in Power Systems 1983-1988.*
- *Fuzzy Sets, Logic, and Systems 1979-1982.*
- *Stochastic Systems.*

5) Consultations:

- *Nasr Oil Co., Suez (on Shore Electrical Works), 1977.*
- *ECOPACK Co. , Oct. 6th, Giza, Egypt, 1988-189*
- *AUST, Ajman (Establishing 2 different Labs. : PLC & Electric Machines), 1999*
- *Cairo University, Elec. Power & Machines Dept. (Different Labs.), 1977-2010.*
- *UAE University, Elec. Dept. (Different Labs), 1994-1995.*
- *Field consultation for Petro Bel Company (Onshore & Offshore Electrical Works), Sinai, Egypt (1981).*
- *Reviewing the specifications of SCADA system and Control Centers (Local Centers and & National Center) for tenders, Holding Company for Water and Wastewater (HCWW), as well as its 23 associated Companies, Cairo, Egypt.*
- *Evaluating tenders for future SCADA projects in HCWW (National SCADA center, Kafr Elshieck, Elminia, Gharbia, Menoufia, New Cairo), Cairo, Egypt.*
- *Current SCADA Consultant for Holding company for Water and Wastewater (HCWW), Cairo, Egypt, since Aug 2008.*
- *Current SCADA training Consultant for HCWW, Cairo, Egypt*
- *Status evaluation for SCADA projects for Aloboor WTP, Cairo, Egypt.*
- *Technical Specifications Preparation for Superbolitan Money printing Machines, Central National Bank, Giza, 2010.*

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- *SCADA Technical Specifications Preparation for Menofia WWC, and Gharbia WWC, 2010-2011.*
- *SCADA Technical Specifications Revision for raw water Pipelines for New Cairo, 2010-2011.*
- *Control and Monitoring for gates of October Whole Sale Market for Vegetables and Fruits (Based on outdoor Cameras, Fiber Optics, and Dell P710 servers).*
- *Control and Monitoring for gates of Sports Stadiums (Bany Souif, Kafr Elshieck, Tanata) (Based on outdoor Cameras, Fiber Optics, and NVR as well as suitable servers).*
- *SCADA Technical Specifications Preparation for Qena Water and Waste water Company, 2010-2012.*

6) Conducted Training Courses (In: Egypt, UAE, KSA, Qatar, Bahrain, and Kuwait):

<i>Course Name</i>	<i>Client</i>	<i>Year</i>
<i>Topological Error analysis in electrical network</i>	<i>BUGH Wuppertal, Germany</i>	<i>1987</i>
<i>Control Components (Transducers & Sensors)</i>	<i>ICOPACK, Oct 6, Egypt</i>	<i>1994</i>
<i>Field training courses for technicians & engineers</i>	<i>GUPCO , Egypt</i>	<i>1994</i>
<i>DCS Control Systems</i>	<i>GTC, KSA</i>	<i>2008</i>
<i>Hazard and Operability studies (HAZOP)</i>	<i>GTC, KSA</i>	<i>2008</i>
<i>Automatic Generation Control</i>	<i>GTC, KSA</i>	<i>2008</i>
<i>Introduction to Exciter /AVR</i>	<i>GTC, KSA</i>	<i>2008</i>
<i>Advanced Trouble Shooting And Fault Isolation</i>	<i>Tuv UAE</i>	<i>2008</i>
<i>Boiler Control</i>	<i>PCT Cairo</i>	<i>2009</i>
<i>Systems Introduction to PLC and Types of Control</i>	<i>Petromath, Cairo</i>	<i>2009</i>
<i>Introduction to PLC</i>	<i>Tech. Pioneers, Cairo</i>	<i>2009</i>
<i>DCS Control Systems</i>	<i>PROJACS, Bahrain</i>	<i>2010</i>
<i>Introduction to Microprocessor and Microcontrollers</i>	<i>Tuv UAE</i>	<i>2010</i>
<i>DCS Control Systems</i>	<i>Egyptian Eng. Society</i>	<i>2011-2013</i>
<i>DCS Control Systems</i>	<i>1st One Training Co., Kuwait</i>	<i>2011</i>
<i>DCS Control Systems</i>	<i>KPC, Kuwait</i>	<i>2012</i>
<i>Control Systems</i>	<i>Cairo Uni.</i>	<i>1977-2011</i>
<i>Gas Turbine Control Systems</i>	<i>Horizons of Success, Gidah, KSA</i>	<i>2013</i>
<i>Control Components (Transducers & Sensors)</i>	<i>PCT Cairo</i>	<i>2009 & 2010</i>
<i>Control Components (Transducers & Sensors)</i>	<i>Ministry of Electricity, Giza</i>	<i>2008 & 2009</i>
<i>Supervisory Control And Data Acquisition (SCADA)</i>	<i>Egyptian Eng. Society</i>	<i>2010&2011</i>
<i>Supervisory Control And Data Acquisition (SCADA)</i>	<i>HCWW, Cairo</i>	<i>2008-2011</i>

General Activities:

- *Reviewer in the Permanent Scientific Committee of Power Systems for Promotion of Professors and Associate Professors, since Oct. 2013.*
- *Participated and chaired sessions in the Conference (5th ICMIC), Cairo, Egypt, Sept. 2013.*
- *Participated and co-chaired sessions in the Conference (CoDIT), Hammamet, Tunisia, May 2013.*
- *Member in Egyptian National Code for Water Desalination Plants, and Chairman for SCADA and Automation Division, National Research Center for building and Construction, Giza Egypt, 2012-2014.*
- *Member in Egyptian National Code for Water Treatment Plants, SCADA Division, National Research Center for building and Construction, Giza Egypt, 2012-2013.*
- *Participated and co-chaired session in the 8th International Conference on Electrical Engineering (ICEENG 2012), MTC, 29-31 May, 2012, Cairo, Egypt*

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- *Participated and co chaired session in the Conference (WCPEE'12), Cairo, Egypt, 2012.*
- *Participated and co chaired session in the Conference (WCSIT'11), Cairo, Egypt, 2011.*
- *Participated and co chaired session in the 8th IEEE Symposium on Diagnostics for Electrical Machines, Power Electronics & Drives (SDEMPED 2011), Sept. 5-8, 2011, Bologna, Italy*
- *Participated in the 14th European Conference on Power Electronics and Applications (EPE 2011), Sept. 2011, Birmingham, UK.*
- *Reviewer in Some Scientific Journals like: Electric Power Components and Systems, IJSDA, IJMIC, JEAS.*
- *Part time Instructor, in Electrical Power Eng. Dept., academic Years (2009-2012), Aviation Engineering and Technology Institute (AETI), Imbaba, Egypt.*
- *Minutes Holder in Electric Power & Machines Dept. Council for the academic Year (2009-2011), Faculty of Engineering, Cairo University, Egypt.*
- *Member in the Public Relations Committees of MEPCON'2010 (Middle East Power systems CONFERENCE), Cairo University, Giza, Egypt, Dec. 2010.*
- *Participated and presented one paper in the Conference MEPCON'2010 (Middle East Power systems CONFERENCE), Cairo University, Giza, Egypt, Dec. 2010.*
- *Teaching Electrical Engineering Courses (PLC, DCS, SCADA) for STCE, Military Production Engineers, Alsalm Town, Cairo, Egypt, (2008-2011).*
- *Participated and presented one paper in the Conference ECE 2010. MSA University, Oct. 6 Town, Egypt.*
- *Member in Engineering Section Council, for the academic Year (2009-2010), IAEMS, Oct. 6 Town, Egypt.*
- *Part time Instructor, in Electrical Eng. Depts., Engineering Section, for the academic Year (2009-2011), IAEMS, October 6 Town, Egypt.*
- *Part time Instructor, in Electrical Eng. Dept., for the academic Years (2007-2010), PHI, Oct. 6 Town, Egypt.*
- *Part time Instructor, in Electrical Power Eng. Dept., for the academic Years (2009-2011), Aviation Engineering Institute, Imbaba - Giza, Egypt.*
- *Member in the Technical, General, and Public Relations Committees of MEPCON'2010 (Middle East Power systems CONFERENCE), Cairo University, Giza, Egypt.*
- *Part time Instructor, in Electrical Eng. Dept., for the academic Years (2007-2012), Banha University, Banha, Egypt.*
- *Participated and presented one paper in the Conference (The International Scientific & Technical Conference 'Actual Trends in Development of Power System Protection and Automation'), being held on 7-10 September 2009 in Moscow, Russia.*
- *Participated and presented two papers in the Conference (5th International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control (ICSCCW 2009)), Famagusta – N. Cyprus, Sept 2-4, 2009.*
- *Participated and presented two papers in the Conference (WCEEENG'09), Cairo, Egypt, 2009.*
- *Member in Electric Power & Machines Dept. Council for the academic Years (1988-1989,1992-1994, 2007-till present), Faculty of Engineering, Cairo University, Egypt.*
- *Member in Faculty Council for the academic Year (2007-2008), Faculty of Engineering, Cairo University, Egypt.*
- *Member in Library Committee for the academic Years (2007-2010), Faculty of Engineering, Cairo University, Egypt.*
- *Member in Faculty member's development Committee for the academic Year (2008-2009), Faculty of Engineering, Cairo University, Egypt.*
- *Advisor for students in Faculty of Engineering (1999/2000), Ajman University of Science & Technology (AUST), Ajman, U.A. E.*
- *Member in Schedules Committee (1999/2000), (AUST) (Final Examination Schedule & Instructors Time Tables).*
- *Member in Curriculum Requirements Committee (1999/2000), (AUST), Ajman, U.A. E.*
- *Member in Faculty Selection Committee (2000-2001), (AUST), Ajman, U.A. E.*
- *Member in Video Conference Committee, Technosfer 2000, (AUST), Ajman, U.A. E.*

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- *Member in New Specialization Committee, (1999-2001), (AUST), Ajman, U.A. E.*
- *Member in Graduate studies committee, (1999-2001), (AUST), Ajman, U.A. E.*
- *Advisor for Students in Electrical Engineering Department, UAE University.*
- *Member in Curriculum Committee (1994/1995), U.A. E. University.*
- *Member in committee of preparation for electrical engineering conference, UAE University (1994/1995).*
- *Member in Tenders Committee for Copying Machines in U.A. E. University.*
- *Member in Technical Examination Committee For New Equipment in electrical Engineering department, U.A. E. University (1995).*
- *Consultation for Industrial Companies in: Suez, Oct. 6th, Giza, Cairo Egypt (92-94).*
- *Part time instructor, Computer Science Dept., CACE- AUC, Cairo, Egypt (1993-94).*
- *Senior Member, IEEE (Institute of Electric and Electronics Engineers), USA, since 1991.*
- *Consultation and teaching for industrial practical training programs for Iron and Steel Industry, Cairo Egypt (1988-1989).*
- *Member of the reviewing committee for the scientific equipment tenders in the Electrical Engineering Department, Cairo University, Egypt (1987-1989).*
- *Member in the Technical, General, and Public Relations Committees of MEPCON'89 and MEPCON'94 (Middle East Power systems CONference), Cairo University, Giza, Egypt.*
- *Member of the research team for more than one FRCU - Project, financed by the American AID, Cairo University,(1983, 1984, 1987, 1988), Giza, Egypt.*
- *Participated in the reviewing-phase for the translation of some engineering books, Joint venture work between Al-Ahram Scientific Translation Center, Cairo, Egypt, and McGraw-Hill Publisher (1982-1983).*
- *Participated in the reviewing-phase (Al-Ahram Scientific Translation Center, Cairo, Egypt) for the Translation of technical terms dictionary, financed by Arab Engineers Union 1980-1981).*
- *Teaching Electrical Engineering Courses for Technical Military Staff, Cairo, Egypt, (1978-1979).*

Supervised Thesis:

- [1] *Lasheen, Atef A. A.; "Study of DCS and Its Applications in Industry", M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 1994.*
- [2] *Hussain, Ahmed M. M.; "Application of Fuzzy Logic Control on DC Motor ", M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 1997.*
- [3] *Kamel, Tamer S.; "A Novel Approach To Distance Protection Of Transmission Lines Using Adaptive Neuro Fuzzy Inference System"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2010.*
- [4] *Shalaan, Hany E.;" Modeling And Control Of Gas Turbine In Combined Cycle Power Plant"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2011.*
- [5] *Gabr, Ahmed S.; "Artificial Intelligence Based Approach For Electrical Load Forecasting Compared With Stochastic Modelling"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2011.*
- [6] *Tammam, Mohamed A. M.;" Multi Objectives Genetic Algorithm Controller's Tuning For Load Frequency Control In Electric Power Systems"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2011.*
- [7] *A. Aziz, Mohamed S.;"An Artificial Intelligence Based Approach for High Impedance Faults Analysis in Distribution Systems Using Adaptive Neuro Fuzzy Inference Systems"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2011.*
- [8] *A. Gawad, Ehab M.;"Artificial Intelligence Based Approach for Wind Speed Forecasting Compared With Stochastic Modeling"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2012.*

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- [9] Alham, Mohamed H.; "Control of The Shunt Active Power Filter Using Artificial Intelligence Techniques", M. SC Thesis, Graduate Studies, Faculty of Engineering , Cairo University, Giza, Egypt, 2012.
- [10] Elbana, Sameh M.;" An Artificial Intelligence Based Approach For Bus Bar Differential Protection Faults Analysis In Distribution Systems"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2012.
- [11] Elbeltagy, Ahmed hakim; " Modeling And Control Of Heat Recovery Steam Generator In Combine Cycle Power Plant"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2012.
- [12] Fekry, Hesham; "A Novel Approach To Estimate The State Of Charge Of Batteries Using Adaptive Neuro Fuzzy Inference System" M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2012.
- [13] Fathy, Shaimaa Mohamed; "Genetic Algorithm Based Controller's Tuning for Linear and Nonlinear Automatic Voltage Regulator in Electric Power Systems"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2013.
- [14] Deab, Mahmoud; "Using Particle Swarm Optimization for Control Of PMSG in Wind Energy Conversion System", M. Sc Thesis, Graduate Studies, Faculty of Engineering (Shoubra), Banha University, 2013.
- [15] Bahgaat, Naglaa, K. "Artificial Intelligent Based Controller for Frequency Control in Power Systems", ", Ph. D. Thesis, Graduate Studies, Faculty of Engineering, Al Azhar University, 2013.
- [16] Taha. A. M. Enany; "Artificial Intelligence Approach to Thermal Protection Scheme for Soft Starter Connected Induction Motors"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Fayoum University, 2013.

Examiner for Graduate Studies Thesis:

a) Internal Examiner for Awarded Thesis From Cairo University

- [1] Hassanin, Doaa, M. Atia; "Optimal Design And Control Of Renewable Energy Sources For Aquaculture System In Remote Area Using Genetic Algorithm"; Ph. D. Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2012.
- [2] Mammoth, Wael, M.; "Intelligent Direct Torque Control for PMSM Drive Using ANFIS Technique"; Ph. D. Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2012.
- [3] Henais, Rania Helmy; " Development Of Advanced Controllers Using Adaptive Weighted PSO Algorithm With Applications"; M. Sc. Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2012.
- [4] Elseadawy, Yasser A.; "Nonlinear Process Control Using Neural Networks with Application to Industrial process"; M. Sc. Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2012.
- [5] Barakat, Walid A. ;"Application Of Fuzzy Logic For The Determination Of Safety Integrity Level In Light Of IEC 61508 & 61511 Standards In O & G Industry"; M. Sc. Thesis, Graduate Studies, Faculty of Engineering, Cairo University, 2013.

b) External Examiner for Awarded Thesis Outside Cairo University

- [1] Mishal, Adnan M. A.; " Power System Dynamic Stability Analysis By Using Artificial Intelligence ", Ph. D. Thesis, Graduate Studies, Faculty of Engineering, Al Azhar University, 2012.

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- [2] Ahmed Adail, Ahmed S. A.; " Power System Dynamic Stability Analysis By Using Artificial Intelligence_", M. Sc. D. Thesis, Graduate Studies, Faculty of Engineering, Al Azhar University, 2012.
- [3] A. Ellah, Mahmoud; "Distribution Generation Using Artificial Intelligence", M. Sc. D. Thesis, Graduate Studies, Faculty of Engineering, Al Azhar University, 2012.
- [4] Shehata, Mohamed; " Power Systems analysis using Programming Language C++", M. Sc. D. Thesis, Graduate Studies, Faculty of Engineering, Al Azhar University, 2012.
- [5] Abu Seada, Hany F. S.; "Using Artificial Intelligence Techniques in Tuning the Controllers of Synchronous Generators Excitation Systems"; M. Sc Thesis, Graduate Studies, Faculty of Engineering (Shoubra), Banha University, 2012.
- [6] Hussain, Ahmed; "Power System Control of Load Frequency control Based on Fuzzy Logic Control"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Al Azhar University, 2013.
- [7] Al-Ayyaf, Ayaaf M. J.; "High Impedence Faults Detection in Kuwait's Distribution Networks"; M. Sc Thesis, Graduate Studies, Faculty of Engineering, Helwan University, 2013.
- [8] Al Ebiary, Shimaa Aly; "Load Flow and Optimum Operation Strategies"; M. Sc Thesis, Graduate Studies, Faculty of Engineering (Shoubra), Banha University, 2013.
- [9] Elsayed, Ahmed A. Hakeem "Electrical Demand Forecasting for the Egyptian Unified Network Using Recent Computational Techniques"; M. Sc Thesis, Graduate Studies, Faculty of Engineering (Shoubra), Banha University, 2013.

Miscellaneous:

- Special Skills : Trilingual (Arabic, English, and German, little French)
- Good Managerial skills.
- Have a clean driving licenses (Egyptian, Canadian, UAE, Saudi).
- Computer Programming Languages: FORTRAN, C, C++, BASIC, VBASIC, Prolog, and INTEL Assembly (80x86 and 8051 Families).
- Operating Systems: UNIX, IBM DOS, MS DOS, MS Windows 95 & 98, CDC-NOS, ICL VME, and VAX VMS.
- Computer Packages: MS Office (all applications), Matlab, SPSS, SAS, ATP.
- Hobbies: Traveling, reading, swimming, and photography.

References: Available Upon request

Refereed Journal Publications:

- [1] N.K. Bahgaat, M. I. El-Sayed, M.A. Moustafa Hassan, F.A. Bendary; "Load Frequency Control in Power System via Improving PID Controller Based on Particle Swarm Optimization and ANFIS Techniques.", Accepted for Publication in the International Journal of System Dynamics Applications IJSDA, , ISSN: 2160-9772, Vol. x, No. (2013), pp. xxx-xxx
- [2] N.K. Bahgaat, M. I. El-Sayed, M.A. Moustafa Hassan, F.A. Bendary; "Control of Load Frequency on Power System Based on Particle Swarm Optimization Techniques and ANFIS"; Accepted for publishing at Journal of Al Azhar University Engineering Sector (JAUES), Cairo Egypt, 2013.
- [3] N.K. Bahgaat, M. I. El-Sayed, M.A. Moustafa Hassan, F.A. Bendary; "Artificial Intelligence Based Controller for Load Frequency Control in Power System"; Journal of Al Azhar University Engineering Sector (JAUES), Cairo Egypt, July 2013.
- [4] Mohamed M. Ismail, M. A. Moustafa Hassan; "Incoming and outgoing CT readings based AI techniques for bus bar differential protection faults analysis", Journal of Engineering Sciences, Assiut University, Faculty of Engineering, Vol. 41, No. 4, July, 2013; pp. 1595 – 1611.

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- [5] Mohamed M. Ismail, M. A. Moustafa Hassan; "[Modeling and Control of Combined Cycle Gas Turbines using Rowen's and Vournas's Models](#)"; *International Review on Modelling and Simulations (IREMOS)*, Published by Praise Worthy Prize; June 2013 (Vol. 6 N. 3); [pp. 994-1004](#).
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