

Professor Magdi S. Mahmoud



- **PRESENT POSITION**

Distinguished Professor,
Coordinator of Distributed Control Research Lab,
Systems Engineering Department,
King Fahd University for Petroleum and Minerals,
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- **Nationality:** Egyptian, **Birth Date:** April 5, 1948

- **Marital Status:** Married, Three Children (Two Sons and Daughter)

- **Permanent Residence**

Home: (+202) 3760-3980 / (+202) 3761-4540; Mobile: (+20100)-5470500; Fax: (+202) 3761-8260;

Home Address: 43 Sheikh Mohamed Al-Ghazzaly Street, Facing Shooting Club, Fifth Floor, Dokki-Giza, Egypt, Post Code 12311.

A. EDUCATION

- Ph.D. in Systems Engineering, Cairo University, Egypt November 1974. Thesis: "New Computer-Aided Techniques for Large Scale Systems with Optimum Performance", Major: Computer Control Systems, Minor: Computing and Applied Mathematics.
- English Language Proficiency Program, English Language Institute, the American University in Cairo, Egypt, February - June 1973.
- M. Sc. in Electronic Engineering, Cairo University, Egypt, May 1972. Thesis: "Evaluation of Surface Parameters in Thermally Grown Oxidized Silicon". Major: Electronic Engineering, Minor: Electron Devices.
- A Special One-Year Program in Computer Engineering and Simulation, Institute of Statistical Studies and Researches, Cairo University, EGYPT, September 1971 - July 1972.
- B.Sc. (Honors) in Electrical Communications Engineering, Cairo University, Egypt, July 1968.

B. PROFESSIONAL SOCIETIES

- Fellow, Institution of Electrical Engineers (IEE), UK.
- Senior Member, Institute of the Electrical and Electronic Engineers (IEEE), USA.
- Member, Council of Engineering Institutions, UK.
- Member, Egyptian Engineers Society, EGYPT.
- Member, Kuwaiti Engineers Society, KUWAIT.
- Member, Operations Research Society of Egypt, Egypt.
- Member, Sigma XI, USA.
- Member, National Academy of Sciences, New York, USA.

C. HONORS & AWARDS

- Winner of a Cairo University Financial Award for Engineering Studies, (1963-1968), Egypt.
- Recipient of the SCIENCE STATE INCENTIVE PRIZE for outstanding research in engineering, (1978), Egypt.
- Recipient of the STATE MEDAL FOR SCIENCE AND ART, First Class, (1978), Egypt.
- Listed in the Annual Edition of WHO'S WHO IN TECHNOLOGY TODAY, Pittsburgh, (1979), USA.
- Recipient of the ABDULHAMED SHOWMAN PRIZE for Young Arab Scientists in the field of Engineering Sciences, (1986), Jordan.
- Recipient of the SCIENCE STATE INCENTIVE PRIZE for outstanding research in engineering, (1986), Egypt.
- Recipient of the STATE DISTINCTION AWARD, (1986), Egypt.
- Recipient of the DISTINGUISHED ENGINEERING RESEARCH AWARD, College of Engineering and Petroleum, Kuwait University, (1992), Kuwait.
- Recipient of the BEST RESEARCH PROJECT AWARD, King Fahd University of Petroleum and Minerals, (2009), Saudi Arabia.
- Recipient of the DISTINGUISHED FACULTY ACHIEVEMENT AWARD, Systems Engineering Department, King Fahd University of Petroleum and Minerals, (2009) and (2010), Saudi Arabia.
- Recipient of the BEST RESEARCH PROJECT AWARD, King Fahd University of Petroleum and Minerals, (2012), Saudi Arabia.
- Recipient of the EXCELLENT RESEARCH AWARD IN SYSTEMS ENGINEERING, King Fahd University of Petroleum and Minerals, (2012), Saudi Arabia.

D. TEACHING UNDER-GRADUATE COURSES

Electrical Engineering Fundamentals, Electronic Devices, Electronic Circuits, Electromagnetic, Network Analysis, Network Synthesis, Digital Systems, Digital Electronics, Electronic Mea-

surements, Linear Systems Analysis, Systems Engineering, Optimization Techniques, Industrial Control, Probability and Statistics, Communication Theory, Computer Programming Languages (FORTRAN, BASIC, C, PASCAL), Digital Control, Engineering Mathematics, Numerical Analysis, Performance Modeling, Control Theory, Power Electronics, Matrix Algebra, Power Systems Control, Differential Equations in Biology, Digital Signal Processing, Numerical Methods, Modern Control Design, Signals and Systems.

E. **TEACHING POST-GRADUATE COURSES**

Information Theory, Linear Systems Theory, Nonlinear Control Systems, Linear Stochastic Control, Systems Identification, Optimal Control, Large Scale Systems, Adaptive Control, Computer Control, Robust Control, Nonlinear Control, Stable Adaptive Systems.

F. **INTENSIVE COURSES OFFERED**

- Introduction to MATLAB with Applications
- Intelligent Instrumentation
- Computer-Based Process Control
- Fundamentals of Industrial Control
- Computer, Communication and Control (C3) Systems
- Sensors, Actuators and Control Measurements

G. **INFORMAL COURSES ATTENDED**

- Introduction to Microeconomics
- Introduction to Macroeconomics
- Operations Management
- Manpower Planning
- Basics of National Accounting
- Economic Development
- International Trade

H. **INSTITUTIONS**

- Al-Azhar University, Egypt
- Cairo University, Egypt
- University of Pittsburgh, USA
- Case Western Reserve University, USA
- University of Manchester Institute of Science and Technology, UK
- The American University in Cairo, Egypt
- National Institute of Planning, Egypt
- The Egyptian Air Academy, Egypt
- Kuwait University, Kuwait
- Nanyang Technological University, Singapore
- October University for Modern Sciences & Arts, Egypt
- Arab Academy for Sciences and Technology, Egypt
- UAE University, United Arab Emirates
- Canadian International College, Egypt
- Ecole Polytechnique de Montreal, Montreal, Canada.
- Institute of Aviation Engineering & Technology, Giza Egypt
- High Institute of Engineering, Al-Shorouk Academy, Egypt.
- King Fahd University of Petroleum and Minerals, Saudi Arabia.

I. **INVITED TALKS**

- Invited Speaker to Texas A & M University-Qatar, Electrical Engineering Department, (Sliding-Mode Control of Time-Delay Systems), April 23-30, 2009
- Invited Speaker to Beijing Institute of Technology, Automatic Control Department, China,

- (Distributed Control Methods), July 15-31, 2009.
- Invited Speaker to Kuwait University, Electrical Engineering Department, (Interconnected Systems with Markovian Jump Parameters), November 17-24, 2009.
 - Keynote Speaker to the Electrical and Computer Engineering Department, Al-Ain University, Al-Ain, UAE, May 2010.
 - Invited Speaker to Beijing Institute of Technology, School of Automation, (Control Methods for Multi-Agent Systems) July 17- August 2, 2010.
 - Invited Speaker to Beijing Institute of Technology, School of Automation, (Networked Control Systems Methods) July 4- July 21, 2011.
 - Invited Speaker to the Electrical and Computer Engineering Department, University of Alberta, Edmonton, Canada, (Wireless Communications: Modeling and Future Trends) March 24- April 1, 2012.
 - Invited Speaker to Beijing Institute of Technology, School of Automation, (Fault Tolerant Control Methods), June 3- June 20, 2012.
 - Invited Speaker to the Electrical and Computer Engineering Department, University of Texas at San Antonio, USA, October 23-November 11, 2012. The following lectures were delivered
 1. *Networked Control Systems with Random Delays*, on Thursday October 25,
 2. *Distributed Kalman Filtering*, on Thursday November 1.
 3. *Control Algorithm for Distributed Networked Industrial Systems*, on Thursday November 8.
 - Invited Speaker to Yanshan University, Institute of Electrical Engineering, *A New Feedback Design for Networked Systems with Probabilistic Delays*, June 4- June 5, 2013.
 - Invited Speaker to Beijing Institute of Technology, School of Automation, *Game Theory for Wireless Sensor Networks*, May 31 - June 18, 2013.
 - Invited Speaker to Beijing Institute of Technology, School of Automation, *Nonlinear Filtering*, March 3 - March 6, 2014.
 - Invited Speaker to University of Science and Technology Beijing, School of Mathematics and Physics, *Feedback Control of Discrete Systems with Time Scales*, March 7, 2014.
 - Invited Speaker to Beijing Institute of Technology, School of Automation, *Nonlinear Filtering*, March 3 - March 6, 2014.
 - Visiting Scholar to Beijing Institute of Technology, School of Automation, June 5 - June 20, 2015.
 - Visiting Scholar to Beijing Institute of Technology, School of Automation, June 15 - June 30, 2016.
 - Keynote Speaker to World Congress of Engineering, London, July 5 - 7, 2017.

J. **RECOGNITIONS**

- Co-Winner of the Most Cited Paper Award 2009 for the paper "Robust Filtering for Jumping Systems with Mode-Dependent Delays, *Signal Processing*, vol. 86, no. 1, 2006, pp. 140-152.
- The paper Asynchronous H_∞ filtering of discrete-time switched systems, Author(s): Mahmoud Magdi S.; Shi Peng, *SIGNAL PROCESSING*, Vol. 92, Issue: 10, Pages: 2356-2364, DOI: 10.1016/j.sigpro.2012.02.007, Published: OCT 2012, was selected top 4 among 40 best papers in Electrical & Electronic Engineering by the Web of Science ISI in July 2012.
- Interviewed for "People in Control", *IEEE Control Systems Magazine*, vol. 34, no. 3, August 2010, pp. 27-29.
- Guest Editor for the special issue "Neural Networks and Intelligence Systems in Neuro-computing" to be published by Sino-American Scholars Online,

<http://www.expertsociety.org/en/SpecialIssuesInfo.aspx?id=166>.

- Chairman of the 4th *International Conference (ICIT 2016)*, August 10-11, 2016, Deira – United Arab Emirates.
- Guest Editor for the 2015 International Symposium on Web of Things and Big Data (WoTBD 2015) 18-20 October 2015, Manama, Bahrain, <http://www.uob.edu.bh/uobfiles/651/v5-4>.
- Program Chair, International Conference on Green Energy and Applications (ICGEA), Nanyang Technological University, March 25–27, 2017, Singapore.

K. PROFESSIONAL JOURNALS

- 1985-1988: Associate Editor of the *Large Scale Systems Theory and Applications Journal*, NORTH HOLLAND.
- 1985-1990: Editor-at-Large of the *Electrical Engineering and Electronics Series*, MARCEL-DEKKER, Inc., USA.
- 1997-NOW: Associate Editor of the *International Journal of Parallel and Distributed Systems and Networks*, IASTED.
- 2004-NOW: Member of the *Advisory Board of the Mediterranean Journal of Measurement and Control*, UK.
- 2004-NOW: Member of the Board of *International Editorial Advisers of Scientific Inquiry Journal*, USA.
- 2004-NOW: Associate Editor of the *International Journal of Innovative Computing, Information and Control (IJICIC)*, JAPAN.
- 2006-NOW: Member of the Editorial Board of *Trends in Applied Sciences Research publication*, USA.
- 2006-NOW: Member of the Editorial Board of the *Journal of Mathematical Control Science and Applications (JMCSA)*, UK.
- 2007-NOW: Regional Editor, (Middle East and Africa), *International Journal of Systems, Control and Communications* (JSCC), INDERSCIENCE Publishers.
- 2010-NOW: Member of the Editorial Board of the *Journal of Numerical Algebra, Control and Optimization (NACO)*, Australia.
- 2011-NOW: Associate Editor of the *International Journal of Systems Dynamics Applications (IJSDA)*.
- 2011-NOW: Member of the Editorial Board of the *Journal of Archives of Control Sciences*, Poland.
- 2012-NOW: Member of the Editorial Board of the *Journal of Engineering Management*, USA.
- 2013-NOW: Member of the Editorial Board of the *Journal of Statistics, Optimization, and Information Computing*, International Academic Press, Hong Kong.
- 2013-2016: Member of the Editorial Board of the *International Journal Advances in Power Systems (IJAPS)*, Organized by Algerian Association of Electrical Engineering (AAEE).
- 2015-NOW: Academic Member of *Athens Institute for Education and Research*, Greece.
- 2016-NOW: Editor of the *Journal Mathematical Problems in Engineering*, Hindawi Publishing Company, USA.
- 2017-NOW: Editor of Open Journal of Yangtze Oil and Gas (OJOGas), Scientific Research Publishing Inc., Hubei Province, China.
- 2017-NOW: Member of the Editorial Board of the *Journal of Pure and Applied Engineering*, Biodimension Publishers, INDIA.
- 2017-NOW: Guest Editor of the Special Issue **New Trends on Observer Based Controller**

Design and Their Applications, *Journal of Complexity*.

- 2017-NOW: Member of the Editorial Board of the *International Journal Advances in Power Systems (IJAPS)*, Organized by Universe Scientific Publishing, Singapore.

L. **RESEARCH PROJECTS & CONSULTANCIES**

- 1974-1975: "Research Associate" at the socioeconomic systems group, Computer Center, The American University in Cairo, Egypt. Worked on dynamic modeling and systems analysis of socioeconomic and demographic systems.
- 1975: "Research Associate" at the world energy modeling group, The Institute of National Planning, Cairo, Egypt. Worked on global modeling and performance analysis of the Mesarovic-Pestel system approach with emphasis on Egypt and the Middle-East region.
- 1976: "Research Associate" at the computer-energy modeling group, University of Pittsburgh, USA. Worked on software development and policy analysis of energy- related Projects
- 1977: "Research Associate" at the Systems Research Center, Case Western Reserve University, USA. Developed a three-level hierarchical system structure for systems analysis and decision making of inter-regional systems with global dynamics.
- 1978: Senior Research Associate" at the educational and manpower planning group, Computer Center, The American University in Cairo, Egypt. Developed multiple-objectives dynamic models for the pre-university educational system, schooling strategies and manpower planning.
- 1977-1978: "Consultant" to (ILLACO-HIP-CEAT) for regional planning and socioeconomic development programs for the creation and establishment of New American City, EGYPT. Developed a DYNAMO-based software package for initialization and comprehensive socioeconomic development, demand activities and town planning.
- 1978-1980: "Co-Principal Investigator" of the project of scientific manpower needs for Egypt till the year 2000 sponsored by the Academy of Scientific Research and Technology, Egypt and the Environmental Protection Agency, USA. Developed a dynamic model to predict the manpower needs by scientific sector and forecast the associated social costs.
- 1979-1980: "Senior Research Associate" at the water quality studies on the River Nile and Lake Nasser project, sponsored by the Academy of Scientific Research and Technology, Egypt and the Environmental Protection Agency, USA. Developed mathematical models and software packages for water policy management for single and multiple-reaches of the River Nile.
- 1979: "Consultant" to ARETO, EGYPT for performance modeling and assessment of the Telecommunications Research Center, Cairo, Egypt. Developed mathematical model and software package for the evaluation and performance patterns of the telecommunication sector in Egypt.
- 1979-1980: "Consultant" to the communication needs for the rural development project, sponsored by (Cairo University/MIT), Technological Planning Program, Cairo, Egypt. Participated in the development of mathematical model and software package for the clustering and socioeconomic patterns of the communication requirements in the rural areas of Egypt.
- 1980-1981: "Consultant" to SHELL Carrington, UK for modeling and dynamic optimization of the utilities system, UK. Participated in the development of mathematical model and software package for the energy management of Shell utilities in UK.
- 1981-1984: "Principal Investigator" of the project on Approximate Feedback Design of Complex Systems, sponsored by Kuwait University Research Administration, Kuwait. Develop mathematical models, designed feedback controllers and created a user-friendly software package based on reduced-order representation of interconnected and complex dy-

namical systems.

- 1986-1988: "Senior Consultant" to the Cairo University Energy Research Center for the supply-demand alternatives in Egypt. Developed mathematical models and data-base management for the evaluation of energy supply-demand alternatives in Egypt.
- 1986-1988: "Senior Consultant" to ISMAC, a Technical Consulting Firm in Egypt, for the development of management information systems to: a. the public sector authority for food-stuffs and refrigeration. b. the faculty of medicine at Suez Canal University. c. The national postal organization. Managed the development of management information systems for different societal organizations.
- 1986-1988: "Senior Consultant" to the National Institute of Telecommunications, Egypt. Managed the research activities of system analysis and computer networking group.
- 1986-1988: "Senior Consultant" to Tele-media Arabia Inc., An International Firm, for the development of computer engineering curricula at the Egyptian Air Academy, Egypt. Participated in the development of course syllabus of computer engineering curricula and in the teaching of software engineering and systems analysis courses.
- 1989-1990: "Member" of the Office of Consultative Studies and Research (OCSR), Ministry of Electricity and Water (MEW), Kuwait. Participated in the development of national short-term load forecast and the plan projection of new power stations to meet population growth and increased future demands.
- 1989-1990: "Senior Consultant" to the Engineering Division, Kuwait Institute for Scientific Research, Kuwait. Managed the research activities and system analysis of energy-related projects.
- 1993-1996: "Senior Consultant" to the Systems and Control Department, Kuwait Institute for Scientific Research, Kuwait. Managed the research activities and system analysis of computer control projects in the oil refineries.
- Project **IN080802**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Robust State Estimation for Uncertain Systems: A Comparative Investigation); with Prof. Hosam E. Emara-Shabaik, Assistant Support: 2 Research Assistants, Starting date: 1/2008, Duration: 2 years. SR 94,800.
- Project **IN80804**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Improved Stabilization Methods for Dynamical Systems with State and Input Delays); with Prof. Fouad AL-Sunni, Assistant Support: 2 Research Assistants, Starting date: 3/2008, Duration: 11/2 years, SR 72,960.
- Project **IN090030**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Switched Time-Delay Systems); Assistant Support: 1 Research Assistant, Starting date: 4/2009, Duration: 1 year, SR25,600.
- Project **FT090015**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Decentralized Control and Filtering with Limited Communications); Assistant Support: 2 Research Assistants, Starting date: 9/2009, Duration: 11/2 years, SR 78,120.
- Project **IN100015**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Decentralized Control and Filtering in Interconnected Dynamical Systems); Assistant Support: 1 Research Assistants, Starting date: 3/2010, Duration: 10 months, SR 16,800.
- **IN100018**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Development of Performance Analysis and Design Methods for Interconnected Control and Communications Systems (ICCS)); with Prof. Fouad AL-Sunni, Assistant Support: 3 Research Assistants, Starting date: 5/2010, Duration: 2 years, SR

89,100.

- Project **IN101024**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Applied Control Systems Design: State-Space Methods) Book writing with Yuanqing Xia; Assistant Support: 1 Research Assistant, Starting date: 5/2011, Duration: 1 year, SR 22,440.
- Project **IN111003**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Distinguished Professorship Research Award); Assistant Support: 4 Research Assistants, Starting date: 5/2010, Duration: 3 years, - SR 150,000.
- Project **RG1105**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Decentralized Networked Control Systems); Assistant Support: 6 Research Assistants, Starting date: 5/2011, Duration: 3 years, - SR 950,000.
- Project **IN111033**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Distributed Control and Filtering for Industrial Systems); Assistant Support: 1 Research Assistant, Starting date: 4/2012, Duration: 1 year, SR 30,800.
- Project **IN121003**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Analysis and Synthesis for Fault Tolerant Control Systems) Book writing with Yuanqing Xia; Assistant Support: 1 Research Assistant, Starting date: 10/2012, Duration: 1 year, SR 30,800.
- Project **RG1316**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (New Control Methodologies for System of Systems Engineering); Assistant Support: 6 Research Assistants, Starting date: 5/2013, Duration: 3 years, SR 950,000.
- Project **IN131002**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Control and Estimation Methods over Communication Networks); Assistant Support: 1 Research Assistant, Starting date: 11/2013, Duration: 1 year, SR 28,500.
- Project **IN131039**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Networked Filtering and Fusion in Wireless Sensor Networks) Book writing with Yuanqing Xia; Assistant Support: 1 Research Assistant, Starting date: 1/2014, Duration: 1 year, SR 20,000.
- Project **IN111003**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Distinguished Professorship Award); Starting date: 9/2011, Duration: 3 years, SR 150,000.
- Project **BW151003**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Microgrid) Edited Book; Assistant Support: 1 Research Assistant, Starting date: 6/2016, Duration: 1 year, SR 24,000.
- Project **BW151004**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Fuzzy Control, Estimation and Fault Diagnosis) Book; Assistant Support: 1 Research Assistant, Starting date: 6/2016, Duration: 1 year, SR 40,000.
- Project **IN141003**: Deanship of Scientific Research, King Fahd University of Petroleum and Minerals, Saudi Arabia, (Distinguished Professorship Award); Starting date: 9/2014, Duration: 3 years, SR 150,000.

M. EDUCATIONAL DEVELOPMENTS

- 1982-1985: Member of the planning committee at the college of engineering and petroleum, Kuwait University for the development of undergraduate and postgraduate engineering curricula, KUWAIT.
- 1986-1988: Member of the steering committee of the Computer Department, The American University in Cairo for the formation of professional diploma of computer studies, EGYPT.

- 1986-1988: Member of the planning group of engineering division, Egyptian Air Academy for the design of study guide courses syllabus and lab manuals of computer engineering courses, EGYPT.
- 1990-1991: Member of the postgraduate committee in control and systems engineering, Cairo University, EGYPT.
- 1991-1993: Member of the academic promotion and recruitment committees at the department/college / university levels, Kuwait University, KUWAIT.
- 1993-1996: Member of the academic planning committee at the department/college levels, Kuwait University, KUWAIT.
- 1996-1997: Member of the research committee at the college level, Kuwait University, KUWAIT.
- 1999-2000: Coordinator of the academic planning committee at the department level and member of the college committee, Kuwait University, KUWAIT.
- 2002-2003: Member of the research, curriculum and promotion committees at the department level and member of the college promotion committee, UAE University, UAE.
- 2004-2006: Chairman of the curriculum and academic planning committees at the Canadian International College, Egypt.
- 2008-Now: Member of the Graduate and Faculty Recruitment Committees at the department level, KFUPM, Saudi Arabia.
- 2011-2014: Member of the Scientific Council, the university level, KFUPM, Saudi Arabia.

N. **MANAGEMENT PROFILE PRIOR TO 2007**

- **Administrative Management**

- a- Academic Coordinator of the systems engineering group at Kuwait University, Kuwait, over the period (1984-1999), overseeing the academic affairs of the group, developing a strategic plan that includes performance objectives and key initiatives of the EE control faculty.
- b- Head of the Applied Systems Department of KISR, Kuwait, (1988-1989), providing effective leadership in developing and managing policies while refining and articulating the overall strategy for the department ensuring an effective delivery process.
- c- Dean of Engineering at MSA University, Egypt, (2000-2001), developing and administering all aspects of the academic budget, attracting outstanding faculty and academic staff as well as aligning and developing the educational team and providing instructional leadership.
- d- Founding Dean of the Canadian International College (CIC), Egypt, (2004-2006), serving in a leading role in coordinating the CIC academic policy and objectives, responsible for delivery of all academic programs and requirements, facilitating and implementing initiatives to improve the quality of teaching and curricular programs in the college (both engineering and business programs), reviewing issues, performance evaluations, and promotion and over-viewing the academic work of instructors and professors.
- e- Chairperson of planning and academic development committees at worldwide institutions to upgrade the course syllabi, establish guidelines for new programs and maintain high quality education. The institutions include: Cairo University, Egypt, (1971-1975, 1977-1980, and 1986-1988); The American University in Cairo, Egypt, (1973-1980); Arab Academy for Sciences and Technology, Egypt, (2001-2002); Nanyang Technological University, Singapore, (1997-1998) and UAE University, Al-Ain, United Arab Emirates, (2002-2004).

- **Educational Developments**

Planned and developed Canadian-based curricula for undergraduate studies in engineering as well as business administration and business technology at CIC, Egypt, (2004-2006); Participating in the development of ABET-format educational programs at Kuwait University (1989-1999) and UAE University (2002-2004) and Leading a team of experts for the design of course syllabus and documentation of undergraduate and postgraduate engineering studies at the Egyptian Air Academy, Egypt, (1986-1988).

- **Professional Achievements**

The recipient of the 1978, 1986 Science State Incentive Prizes for outstanding research in engineering (Egypt); the 1986 Abdul-Hameed Showman Prize for Young Arab Scientists in engineering sciences, (Jordan) and the 1992 Prestigious Award for Best Researcher at Kuwait University, (Kuwait) and Holder of the State Medal of Science and Arts-first class, 1979 (Egypt) and the State Distinguished Award-first class, 1995 (Egypt); Listed in the 1979 edition of Who's Who in Technology Today (USA), was vice-chairman of IFAC-SECOM working group on large-scale systems methodology and applications (1981-1986), an associate editor of Large Scale Systems Journal (1985-1988) and editor-at-large of the EEE series, Marcel-Dekker, USA; An associate editor of the International Journal of Parallel and Distributed Systems of Networks, IASTED, since 1997; of the *International Journal of Innovative Computing, Information and Control (IJICIC)* since 2004 and a member of the Editorial Board of Trends in Applied Sciences Research publications since 2006. A founding member of the Managerial Advisory Board of the Mediterranean Journal of Measurement and Control (MJMC) since 2004 and a member of the Board of International Editorial Advisory of Scientific Inquiry Journal since 2005 and a member of the New York Academy of Sciences, a fellow of the IEE, a senior member of the IEEE, a member of Sigma Xi, CEI (UK), Egyptian Engineers society, Kuwait Engineers society and a registered consultant engineer of information engineering and systems (Egypt).

O. **INTERNATIONAL PROFESSIONAL MEETINGS**

- 1976-1977: Associate Editor of the Seventh and Eighth Annual Modeling and Simulation Conference, University of Pittsburgh, USA.
- 1978: Associate Editor of the Second Workshop on Demographic Aspects of Development Planning, the American University in Cairo, EGYPT.
- 1981-1984: Vice-Chairman of the IFAC SECOM Working Group of Large Scale Systems Methodology and Applications.
- 1982-1984: Counselor of the IEEE student Branch at Kuwait University, KUWAIT.
- 1985: Member of the International Program Committee (IPC) of the IFAC Workshop on Automatic Control Applications in Petrochemical and Desalination Industries, KUWAIT.
- 1988: Member of the International Program Committee (IPC) of the Second International Workshop on Methodologies and Applications of Complex System Theory to Communication and Computer Networks, Cairo-EGYPT.
- 1992: Member of the International Program Committee (IPC) , the Fourth International Symposium on Robotics and Manufacturing, Santa Fe, New Mexico, USA.
- 1994: Member of the Program Sessions Committee (PSC), the Third International Conference on Automation, Robotics and Computer Vision, SINGAPORE.
- 1998: Member of the International Advisory Committee (IAC), the Fifth International Conference on Control, Automation, Robotics and Vision (ICARCV), SINGAPORE.
- 1998: Member of the International Program Committee (IPC), the Third European Robotics, Intelligent Systems and Control (EURISCON), GREECE.
- 2000: Member of the International Advisory Committee (IAC), the Sixth International

Conference on Control, Automation, Robotics and Vision (ICARCV), SINGAPORE.

- 2006: Member of the International Program Committee (IPC), the First International Symposium on Systems and Control in Aerospace and Astronautics (ISSCAA), Harbin, CHINA.

P. **EMPLOYMENT RECORD**

- 9/2011-Now:** Distinguished Professor, KFUPM, Dhahran, Saudi Arabia.
- 6/2009-9/2011** Professor, KFUPM, Dhahran, Saudi Arabia.
- i **9/2007-6/2009:** Visiting Professor, KFUPM, Dhahran, Saudi Arabia.
- ii **9/2006-6/2007:** Adjunct Professor, Graduate Studies Program, Cairo University, Giza, Egypt.
- iii **2/2007-6/2007:** Adjunct Professor, High Institute of Engineering, Al-Shorouk Academy, Egypt.
- iv **9/2006-2/2007:** Adjunct Professor, Institute of Aviation Engineering & Technology, Giza, Egypt.
- v **5/2006-6/2006:** Visiting Professor, Ecole Polytechnique de Montreal, Montreal, Canada.
- vi **7/2004-2/2006:** Founding Dean, Canadian International College, New Cairo City, Egypt.
- vii **8/2002-7/2004:** Professor of Electrical Engineering, UAE University, Al-Ain, UAE.
- viii **10/2001-12/2001:** Visiting Professor, Department of Mathematics, University of South Australia, Adelaide, Australia.
- ix **7/2001-12/2001:** Professor of Engineering, Arab Academy for Sciences and Technology, Cairo, EGYPT.
- x **9/2000-7/2001:** Dean of Engineering and Professor of Electrical Systems Engineering, October University for Modern Sciences and Arts, Giza, Egypt.
- xi **9/1997-9/1998:** Visiting Professor of Systems Engineering, School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore.
- xii **9/1991-9/1997, 9/1998-9/2000:** Professor of Systems Engineering and Coordinator of the Systems Control Group, Kuwait University, Kuwait.
- xiii **9/1990-9/1991:** Professor of Systems Engineering and Coordinator of the Systems Control Group, Cairo University, Egypt.
- xiv **9/1989-9/1990[†]:** Professor of Electrical and Computer Engineering and Coordinator of the Systems Control Group, Kuwait University, Kuwait.
- xv **9/1988-9/1989[†]:** Manager of Applied Systems Department and Senior Research Scientist, Kuwait Institute for Scientific Research, Kuwait.
- xvi **1/1986-9/1988[†]:** Professor of Systems Engineering and Coordinator of the Systems Control Group, Cairo University, Egypt.
- xvii **11/1984-1/1986[†]:** Professor of Systems Engineering, Kuwait University, Kuwait.
- xviii **9/1981-11/1984[†]:** Associate Professor of Systems Engineering, Kuwait University, Kuwait.
- xix **6/1980-9/1981[†]:** Lecturer, Control Systems Center. University of Manchester Institute of Science and Technology, UK.
- xx **9/1977-6/1980:** Associate Professor of Systems Engineering, Cairo University, Egypt.
- xxi **12/1976-7/1977:** Visiting Assistant Professor of Systems Engineering, Systems Research Center, Case Western Reserve University, USA.
- xxii **9/1975-12/1976:** Visiting Assistant Professor of Systems Engineering, University of Pittsburgh, USA.
- xxiii **11/1974-9/1975:** Assistant Professor of Systems Engineering, Cairo University, Egypt.
- xxiv **4/1971-11/1974:** Instructor of Electronics and Communications Engineering, Cairo University, Egypt.
- xxv **7/1968-4/1971:** Instructor of Electrical Engineering and Mathematics. Al-Azhar University, Egypt.

[†] On leave from Cairo University, Giza, Egypt

Q. **NEW ESTABLISHED COURSES**

- **Large Scale Systems** (ECE 575, 3 credit hrs) first taught in fall 1985 at Kuwait University. A graduate-level course developed to provide students with a background and knowledge of an important class of systems: large-scale systems. Emphasis placed on theoretical aspects and typical case studies.
- **Industrial Control** (ECE 475, 3 credit hrs) first taught in fall 1989 at Kuwait University. A senior-level course developed to expose students to different control strategies and CAD facilities for industrial processes.
- **Adaptive Process Control** (ECE 579, 3 credit hrs) first taught in spring 1992 at Kuwait University. A graduate-level course developed to equip students with basic principles and techniques of adaptive control applied to industrial processes.
- **Intelligent Control Systems** (ECE 595, 3 credit hrs) first taught in spring 1995 at Kuwait University. A graduate-level course developed to equip students with fundamentals and basic concepts of expert systems, fuzzy logic and artificial intelligent in the context of systems engineering.

R. **SUPERVISION OF M. Sc. and Ph. D.**

- 1) Mihra Mohamed Salama, *Feedback Control Design via Order-Reduction Techniques*, M. Sc. Thesis, Cairo University, January 1980.
- 2) Faten Hosny Fahmy, *Closed-Loop Control and Stabilization of Multi-area Power Systems*, M. Sc. Thesis, Cairo University, April 1980.
- 3) Salwa Mohamed El-Said, *Circuit Design Using Dynamic Optimization*, M. Sc. Thesis, Cairo University, May 1980.
- 4) Mohie El-Din Azzam, *Power System Control: Hierarchical Approach*, M. Sc. Thesis, Assiut University, April 1980.
- 5) Magdi Tawfiq Hanna, *Control Modeling and Optimization of the National Economy*, M. Sc. Thesis, Cairo University, May 1980.
- 6) Hassan Mahgoub, *Decentralized Optimization by Nonlinear Control Applied to Guidance Systems*, M. Sc. Thesis, Military Technical College (Cairo), July 1980.
- 7) Michael P. Spathopoulos, *The Multiple Projection Algorithm for Parameter Estimation in Large-Scale Systems*, M. Sc. Thesis, UMIST Control Systems Center, March 1981.
- 8) Ahmed M. El-Dieb, *Microcomputer Modeling and Simulation with Application to Energy Systems*, M. Sc. Thesis, Cairo University, February 1988.
- 9) Kamel A. Rahoumat, *Digital Control of Electric Drives*, M. Sc. Thesis, Cairo University, March 1988.
- 10) Ahmed A. Abou-Elsoud, *Knowledge-Based Control Systems*, M. Sc. Thesis, Cairo University, December 1988.
- 11) Mahmoud M. Abdel-Karim, *Optimal Variable Structure Controller for Multivariable Systems*, M. Sc. Thesis, Cairo University, July 1989.
- 12) Magda A. Al-Daghistani, *Adaptive Design Methods for the Control of Robotic Manipulators*, M. Sc. Thesis, Cairo University, June 1991.
- 13) Khalid Farouk Abdel-halim, *Priority Analysis in Queuing Systems*, M. Sc. Thesis, Cairo University, April 1992.
- 14) Husam Y. Hajeer, *Adaptive and Robust Control of Robotic Manipulators*, M. Sc. Thesis, Kuwait University, June 1992.
- 15) Mustafa Ahmed Al-Nasser, *Automated Insulin Delivery to Diabetic Patients*, M. Sc. Thesis,

- Co-supervised with Dr. Sami El-Elferik, KFUPM, December 2008.
- 16) Ali Yaseen ElRayyah, *Robust Stability and Feedback Stabilization Criteria for Systems with Time-Varying Delays*, M. Sc. Thesis, KFUPM, January 2009.
 - 17) Hosam Abdul Rahim Fareed Arabasy, *LMI-Based Control of Nonlinear Time-Delay Model for Type 1-Diabetic Patient*, M. Sc. Thesis, Co-supervised with Dr. Sami El-Elferik, KFUPM, June 2009.
 - 18) Alaeddin Khalil Jaradat, *Gain Scheduled Filtering Design for Parameter Varying Systems*, M. Sc. Thesis, KFUPM, June 2010.
 - 19) Mohammed Masood Hussain, *Global Stabilization of Decentralized Control Systems subject to Saturation*, M. Sc. Thesis, KFUPM, December 2011.
 - 20) Mirza Hameed Baig, *Stabilization of Networked Control Systems with Random Delays*, M. Sc. Thesis, KFUPM, September 2012.
 - 21) Haris Mohamed Khalid, *Distributed Kalman Filtering*, Ph. D. Dissertation, KFUPM, September 2012.
 - 22) Nezar M. Alyazidi, *Control and Estimation over Unreliable Communication Network*, M. Sc. Thesis, KFUPM, November 2012.
 - 23) Faisal Ahmed Al-Nasser, *Decentralized Control Strategies over Communication Constraints*, Ph. D. Dissertation, Co-supervised with Dr. Fouad M. AL-Sunni, KFUPM, December 2012.
 - 24) Gulam Dastagir Khan, *Stabilization of Linear Systems Over Markov Communication Channels*, M. Sc. Thesis, KFUPM, April 2013.
 - 25) Mohammed Abdul-Hai, *Identification and Control of Glass Furnace*, M. Sc. Thesis, KFUPM, May 2013.
 - 26) Muhammad Sabih, *Decentralized Control Strategies over Communication Constraints*, Ph. D. Dissertation, Co-supervised with Dr. Mostafa Elshafei, KFUPM, December 2013.
 - 27) Abdullah Saeed Al-Shehri, *Observer based H_∞ Control for Uncertain Nonlinear Network System with Packet Dropouts*, M. Sc. Thesis Committee Member, KFUPM, December 2013.
 - 28) Khalid E. Al-Khater, *Symbolic MATLAB Package for Nonlinear Control Design*, M. Sc. Thesis, KFUPM, December 2014.
 - 29) Azher Syed Hussain, *Distributed Control of Autonomous Microgrids*, M. Sc. Thesis, KFUPM, April 2015.
 - 30) Mohammed Saif Ur Rahman, *Control Strategies for Microgrid System of Systems*, M. Sc. Thesis, KFUPM, April 2015.
 - 31) Azhar Mehmood Memon, *Triggering Mechanisms in Control Systems Design*, Ph. D. Thesis, KFUPM, December 2015.
 - 32) Nezar M. Alyazidi, *Intelligent Adaptive Control Algorithms for Distributed Generation Systems*, Ph. D. Thesis, KFUPM, December 2016.
 - 33) Mojeed O. Oyededeji, *Model Predictive Control for Wind Turbines*, M. Sc. Thesis, KFUPM, May 2017.

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- 3) **Magdi S. Mahmoud**, M. F. Hassan and M. G. Darwish, (*Large Scale Control Systems: Theories and Techniques*), Marcel Dekker Inc., New York, 1985.
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 - 23) **Magdi S. Mahmoud**, (*Probability and Statistics: An Introduction to Engineering Students*), Electrical and Computer Engineering Department, Kuwait University, Kuwait, 1996.

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 - 40) **Magdi S. Mahmoud** and Nezar M. Alyazidi (*Pilot-Scale Implementation of Coordinated Control for Autonomous Microgrids*), Chapter 12 in the book *Microgrids: Advanced Control Methods and Renewable Energy System Integration*, M. S. Mahmoud (Editor), pp. 341–367, 2016.
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- 2) **Magdi S. Mahmoud**, "Closed-Loop Multilevel Control for Large Nonlinear Systems via Invariant Imbedding Techniques", *International Journal of Computers and Electrical Engineering*, Vol. 4, No. 2, March 1977, pp. 525-543.
- 3) **Magdi S. Mahmoud**, W.G. Vogt and M.H. Mickle, , "Multilevel Control and Optimization Using Generalized Gradients Techniques", *International Journal of Control*, Vol. 25, No. 4, April 1977, pp. 525-543.
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 - 25) **Magdi S. Mahmoud**, "Structural Properties of Discrete Systems with Slow and Fast Modes", *Large Scale Systems Theory and Applications*, Vol. 3, No.4, November 1982, pp. 227-236.
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TABLE I. **Different Citations**

Google Scholar Citations		
	<i>All</i>	<i>Since 2012</i>
<i>Citations</i>	10935	4826
<i>h – index</i>	49	34
<i>i10 – index</i>	229	131
Research Gate Statistics		
	<i>Reads</i>	11152
	<i>Citations</i>	7433
	<i>Profile Views</i>	2150
	<i>Average</i>	44.77
	<i>Total Impact Points</i>	548.67
	<i>Average Impact per Publication</i>	1.05
Scopus Statistics		
	<i>ID</i>	7202058424
	<i>h – index</i>	37
	<i>Documents</i>	429
	<i>Views</i>	69640
	<i>Citations</i>	5548 by 3728 documents
	<i>Average</i>	44.73
	<i>ORCID</i>	0000 – 0002 – 9397 – 9208

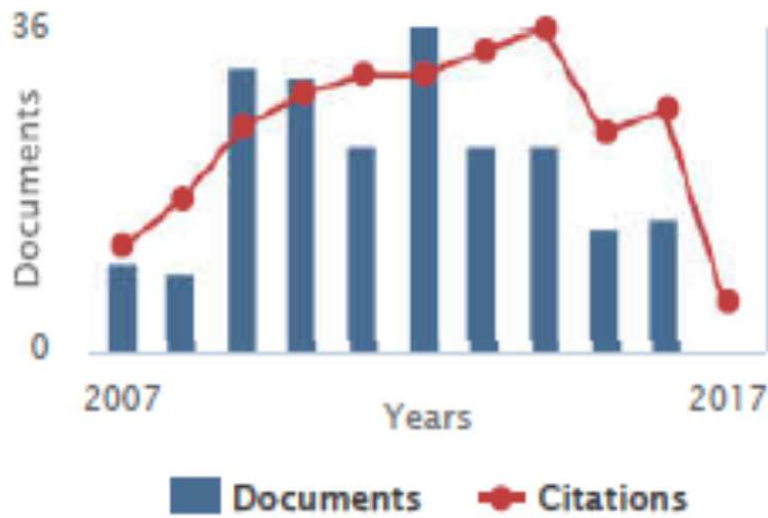


Fig. 1. Scopus Analysis of Published Papers II

Google Scholar		
Citation indices	All	Since 2012
Citations	10092	4303
h-index	47	32
i10-index	211	114

Fig. 2. Google Scholar Data Since 2012