

CURRICULUM VITAE¹



Dr. Wahied Gharieb Ali Abdelaal

Professor in Control Engineering

CURRENT POSITION

Dean of "Egyptian Academy for Engineering & Advanced Technology" (EAE&AT), Affiliated to Ministry of Military Production, February 21, 2016.

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Professional Profile: <http://lnkd.in/b/FxNhW>

Professional Profile: https://www.researchgate.net/profile/Wahied_Gharieb?ev=hdr_xprf

Social profile: <https://www.facebook.com/wahid.abdelaal>

Social profile: https://twitter.com/Wahied_Abdelaal

Google Scholar: http://scholar.google.com/citations?hl=en&user=-kcF_kcAAAAJ

Research fate: http://www.researchgate.net/profile/Wahied_Gharieb

Personal Information

Nationality: Egyptian

Date of Birth: 2 July 1961

Marital Status: Married

Languages: English and French

Address (home): Golf Land, behind Air force defense house- Building N^o 2, Appt. 31- Nasr City, Cairo - EGYPT.

Qualifications

- **B. Sc.** in Electrical Engineering (May 1984) from Ain Shams University, Faculty of Engineering - Electronics and Computers Eng. Dept., Cairo EGYPT, General Grade (VERY GOOD) with HONNOR degree, Graduation project (Excellent).
- **M. Sc.** in Electrical Engineering (January 1989), from Ain Shams University, Faculty of Engineering - Electronics & Computers Dept., Cairo EGYPT.
- **Ph. D.** in Automatic Control and Production Planning (May 1994), INPG-LAG, Grenoble FRANCE.

Scholarships and Honors

French Government Scholarship for Ph. D. Thesis in Automatic control (Oct. 1989 – June 1994).

¹ Last update: January, 2017.

Scientific Affiliations

Conference Chair, "10th IEEE International Conference on Computer Engineering and Systems (ICCES)", Dec. 23-24, 2015 Egypt, Cairo, IEEE Catalog Number: **CFP1554A-ART**, ISBN: **978-1-4673-9971-5**.

Editor-in-Chief in control engineering, World Journal of Engineering and Technology (WJET)

[http:// www.scirp.org/journal/wjet](http://www.scirp.org/journal/wjet)

Scientific Bulletin Reviewer # 300351 (Fac. Eng., Ain Shams University)

IEEE Member # 04248720 (Control and Systems Society), 1995-2002.

Egyptian Society of Language Engineering, Member#127, Since 2014

Who's Who in the world for the 30th Edition VIP NUMBER 36528465, 2013

AWARDS

- **King Saud University Award for Scientific Excellence**, KSA, May 2013
- **King Saud University Award for Teaching Excellence**, KSA, June 2008
- **College of Engineering Award for Teaching Excellence**, King Saud University, KSA, June 2008
- **Electrical Engineering Department Award for Teaching Excellence**, King Saud University, KSA, June 2008.
- **2nd Position** in third Egyptian ROBOCON Contest to Ain Shams team (Survivors), April 14-21, 2004, Cairo EGYPT.
- **Champion Prize** in first Egyptian ROBOCON Contest to Ain Shams team (DODO), May 2002, Cairo EGYPT + Grant from ABU to represent EGYPT in the international contest in TOKYO (August 2002).
- **Best Artistic Design** in first Egyptian ROBOCON Contest to Ain Sham team (Square Walker), May 2002, Cairo EGYPT.
- **Panasonic Award** to Ain Shams team (Instructor + 3 students) from ABU Asia-Pacific ROBOCON Contest 31st August 2002 TOKYO, JAPAN

Academic Experience

Academic/Position title	University / Institute, City & Country	Duration
Head of Department	Computer & Systems Eng. Dept., Ain Shams University, Faculty of Engineering, Cairo, EGYPT	Nov. 23,2014 – Jan. 1, 2016
Professor	Computer & Systems Eng. Dept., Ain Shams University, Faculty of Engineering, Cairo, EGYPT	From Nov. 23, 2009
Associate Professor	On loan to Electrical Engineering Department, College of Engineering, King Saud University, Riyadh, KSA.	2004 - 2013
Associate Professor	Computer & Systems Eng. Dept., Ain Shams University, Faculty of Engineering, Cairo, EGYPT	April 24, 2000- Nov. 2009
Assistant Professor	Computer & Systems Eng. Dept., Ain Shams University, Faculty of Engineering, Cairo, EGYPT	July 25, 1994 - April 23, 2000
Researcher	INPG/Automatic Control Laboratory, Grenoble, FRANCE	Oct. 89 – June 94
Lecturer	Computer & Systems Eng. Dept., Ain Shams University, Faculty of Engineering, Cairo, EGYPT American University in Cairo (AUC) – DPS	Feb. 19, 1989 – July 25, 1994 1989
Lecturer Assistant (Demonstrator)	Computer & Systems Eng. Dept., Ain Shams University, Faculty of Engineering, Cairo, EGYPT	Sept. 17, 1984 – Feb. 19, 1989

Consultation & Industrial Experiences

- Member of Technical Education Committee, Supreme Council of Universities, Since August 2016.
- Expert of Engineering Education, Engineering Education Committee, Supreme Council of Universities, Since March 2015.
- Design technical learning modules for Integrated Technical Education Cluster, Fayoum (ITEC) Project, funded by the Debt Swap Program with the Italian side and the Education Development Fund Egypt, May 2014-Sept 2014.
- CHEP Board member, ABET coordinator, Ain Shams Engineering, Cairo Egypt, 2014-2015.
- PI of research project “Piezoelectric Generator for Self-Powered Micro/Nano devices”, Long Term Comprehensive National Plan for Science, Technology and Innovation, (10-NAN1036-02), 2011-2013.
- PI of research project “Nanopositioning Servo Control using Piezoelectric Actuators”, Long Term Comprehensive National Plan for Science, Technology and Innovation, 08-NAN388-02, 2009-2011.
- Consultation for ABET Accreditation in Biomedical Sciences College, KSU, 2011.
- “Intelligent Monitoring and Security System based Multi-Robot Cooperation- Phase1: Obstacle Avoidance using Laser Scanner”, funded by PSATRI, 2010.
- “Robotic Assistant System for In-Service Oil Tank inspection”, Research Center – College of Engineering (KSU-SA), SABIC Project#427/19, 2007.
- Research project, "Intelligent Robotic Walker to Assist the Visually Impaired", Faculty of Engineering Research Center, KSU, SA, Project#426/8, 2006.
- Technical review committee member "On Board Computer", Egypt Sat-1 Project, 2004.
- Director of Central Computer Labs, Faculty of Engineering-Ain Shams University, April 2001- April 2003.
- Participation in many research projects with Cairo University (Development Research & Technical Planning Center) to upgrade packing machines and to develop control cabinets using PLCs (Eastern Company), March 1999-2004.
- Technical Consultant in Training for AIAT Company, Since May 1998.
- Monitor the Engineering Education Development Project (EEDP), Ministry of Higher Education, Funded by World Bank Loan n°. 3137-EGT, EGYPT, 1995-1998
- Automation of information system for Canal Company, Port Said (By : Information System Center, Ain Shams Engineering Faculty), EGYPT, 1994 -1995
- European TEMPUS Project to develop Laboratory Experiments for Engineering Education, Project n° JEP-0886, FRANCE, 1992.
- Automation of information system for transportation – Transport Planning Ministry Project (By: Information System Center, Ain Shams Engineering Faculty), EGYPT, 1989.

Teaching Experience (Postgraduate and Undergraduate Courses)

Systems engineering: Advanced control systems, Non-linear control systems, Stochastic optimal control, Optimal control, Control systems design, Digital control systems, Control components, Systems dynamics, Robotic Systems, Systems Engineering, Applied Control, Signals and Systems, Microprocessors Industrial Applications, Introduction to Engineering Design

Computer engineering: Introduction to computers, C++ Programming, Logic circuits design, Computer organization, Filing systems, Neural networks, Numerical Analysis, Microprocessors: programming and interfacing.

Supervision of M.Sc. Students

- Basem M. Badr, “**Fuzzy Control for Nanopositioning Piezoelectric Actuators**”, M.Sc. Thesis in Electrical Engineering, King Saud University, 2011.
<http://88.85.230.105:4444/pages/fast.aspx?k=Nanoscience&bibno=513049>
- Sutrisno W. Ibrahim, “**Autonomous Frequency Tracking for Piezoelectric Energy Harvester**”, M.Sc. Thesis in Electrical Engineering, King Saud University, January 2013.

Supervision of B. Sc. Graduation projects

“Fuzzy Tools for MATLAB”, 1995

“Hardware Fuzzy Components”, 1996

“Fuzzy Logic Control Case study: Coupled tank”, *with prof. Gamal Aly*, 1997

“Fuzzy Logic Control Case study: Ball& Beam”, *with prof. Gamal Aly*, 1997

“Fan&Plate Apparatus Implementation & Fuzzy Control”, 1998

“Virtual Instrumentation Package”, *with Dr. Hesham Frag*, 1999

“Braille Input Output Unit”, *with Prof. Abd El-Monheim Wahdaan*, 2000

“PC Robot Interface: Hardware and Software”, *with Prof. Abd El-Monheim Wahdaan*, 2000

“Elevator system using PLC”, *with Prof. Abd El-Monheim Wahdaan*, 2001

“Conveyor system using PLC”, *with Prof. Abd El-Monheim Wahdaan*, 2001

“Robocon Egypt-Japan DODO 2002”, 2002

“Robocon contest: First Competition in Egypt (Square Walker)”, 2002

“Robocon contest: 2nd Competition in Egypt”, 2003

“Robocon contest: 3rd Competition in Egypt, Survivors”, 2004

“Temperature Control System using PIC Microcontroller”, 2004

“Air flow control using microcontroller”, KSU, SA, 2005

“Air Flow System: Modeling & Control”, KSU, SA, 2005

“DC Motor Control using Microcontroller”, KSU, SA, 2006

“Mobile Robot Platform”, KSU, SA 2007

“Six Legged Robot”, KSU, KSA, 2008

“Medical reminder using microcontroller, KSU, KSA 2009

“Automatic take off/landing for UAV Helicopter model”, KSU, KSA 2009

“Anti-Windup PID Controller Design using Fuzzy Logic”, KSU, KSA 2010

“Design of a DC Generator for Self Powered Devices”, KSU, KSA 2011

“Design of a Range Finder Laser Scanner”, KSU, KSA 2012

“Design of a DC Generator for Self Powered Devices”, KSU, KSA, 2013

“Autonomous RFID based Serving Robot”, Cairo, Egypt, May-2014

Supervision of Diploma Graduation projects

“Real Time Digital Control using ADDA Card”, 2000

“Tunnel Ventilation Control System”, 2002

“Two Link Robot Arm”, 2002

“Motorized Wheelchair with Intelligent Control”, *ITI Project*, 2004.

Training Courses in Egypt and Aboard

- *Instrumentation program* for Senior Technicians (three months 7 hours/day during in French). The program has included an on-line practical training and many projects on site. It was organized by NAFTOGAZ at Hassi-Messaoud, ALGERIA, Jan.96 – April 96
- *Automization, Control and Measurement Systems in Oil and Gas Industries* for Senior Engineers (6 hours/day). The program has included an on-line training in the field. It was organized by SPC - Syria, Nov.7-12, 1998.
- *Microprocessors and PLC systems* for electrical and mechanical engineers (one week 6 hours/day). The training course was held in CAD/CAM Center Abu Zaabal Co. For Engineering Industries on MECHATRONICS, Organized by the Center for Advancement of Postgraduate Studies and Research in Engineering Science CAPSCU, Faculty of Engineering, Cairo University, May 1999.
- *PLC Systems* for electrical technicians and engineers in Eastern company–Giza EGYPT, Training Courses are held at Development Research and Technical Planning Center – Cairo University 2002, 2003.
- Training course for electrical engineers in Saudi electricity Company, “*Nanotechnology and Its Applications for Electricity*”, Agr#PSA-2011-06.
- *Several training courses for Innovative center in KSU, 2010-2011.*
- *Mobile Robots technology*, Training course for talented students (Mawhiba program), 2-20 July 2011, KSA.
- *Fundamentals of Engineering Design*, Training course for talented students (Mawhiba program), 2-June 2013, KSA.
- *Training courses in Kuwait, KPC, "Configuration of communication protocols and system interfaces, calibrating and monitoring control systems using simulators", via Global Franchise Company, Nov.2014&Jan.2015.*

Research interest

- Intelligent control systems (fuzzy logic, neural nets, and genetic algorithms), Logical controllers (PLCs), Robotic engineering, and Computer control applications.
- Supervising several M.Sc. and Ph. D. Theses in system engineering (e.g.:
“Fesability Study to use Renewable Energy in Remote Touristic Village”, Ph.D. Thesis ,1996.
"An Intelligent Control System for Ship Collision Avoidance", M. Sc., 1999.
"Attitude determination and Control for Remote Sensing Satellites", M. Sc., 2003
"Intelligent Navigation System for Mobile Robots", M. Sc., 2003
"Motion Control System for Multi-Axis Machines", M. Sc., 2003
"Interactive Simulator Design for Shooting Systems", M. Sc., 2004.
"Robot Trajectory Planning using Genetic Algorithms", M. Sc.,2006
“Fuzzy Control for Nanopositioning Piezoelectric Actuators”, M.Sc., 2011.
“Autonomous Frequency Tracker for Piezoelectric Energy Harvester”, M. Sc, 2013.
- Reviewing many papers for several International Journals and Conferences.
- Publishing more than 70 research papers and 5 books in the field (*See publications details*).

Publications

Patents

- [1] Wahied Gharieb Ali ABDELAAL, "**Piezoelectric Dual-Syringe Insulin Pump**", US-Patent No 8,382,703 B1, Feb. 26, 2013. <http://www.freepatentsonline.com/8382703.pdf>
- [2] Wahied Gharieb Ali ABDELAAL, "**Piezoelectric Dual-Syringe Insulin Pump**", WIPO Patent WO/2013/058787A1, April 25, 2013. <http://www.freepatentsonline.com/WO2013058787A1.pdf>

Theses

- [1] W. Gharieb, "**Variable Structure Control Systems**", M. Sc. Thesis, Ain Shams University, Cairo EGYPT, Jan 1989.
- [2] W. Gharieb, "**Commande Multimodèle Avec Anticipation**", Ph. D. Thesis INPG, Grenoble FRANCE, May 1994. <http://www.theses.fr/1994INPG0045>

Books

- [1] W. Gharieb, "**Automatic Control**", Ministry of Communications and Information Technology – Technological Educational Development Program, 2002.
- [2] Basem M. Badr and Wahied G. Ali Abdelaal, "**Fuzzy control for Nanopositioning Piezoelectric Actuators**", ISBN:978-363943212, VDM Verlag Dr.Muller, April 2011. <http://www.amazon.com/Fuzzy-Control-Nanopositioning-Piezoelectric-Actuators>
- [3] Wahied G. Ali Abdelaal, "**Power Enhancement for Piezoelectric Energy Harvesting Systems**", ISBN 978-3-659-31966-2, LAP Lambert Academic Publishing, Jan 15, 2013. <https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-659-31966-2/power-enhancement-for-piezoelectric-energy-harvesting-systems?search=wahied>
- [4] Sutrisno W. Ibrahim and Wahied G. Ali Abdelaal, "**Self-Tunable Piezoelectric Energy Harvester**", ISBN 978-3-659-33664-5, LAP Lambert Academic Publishing, Feb. 2, 2013. <https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-659-33664-5/self-tunable-piezoelectric-energy-harvester?search=sutrisno>
- [5] Wahied G. Ali Abdelaal, "**Closed loop insulin delivery systems: Piezoelectric Insulin Pump Design**", ISBN 978-3-659-39428-7, LAP Lambert Academic Publishing, April. 29, 2013. <https://www.lap-publishing.com/catalog/details/store/fr/book/978-3-659-39428-7/closed-loop-insulin-delivery-system?search=wahied>
- [6] Wahied G. Ali Abdelaal, "**Piezoelectric Energy Harvesting for Wireless Sensor Nodes**", Book Chapter, *Encyclopedia of Information Science and Technology*, Third edition (volume 10), chapter 617, pp.6269-6281, July 2014. DOI: 10.4018/978-1-4666-5888-2.ch617 <http://www.igi-global.com/book/encyclopedia-information-science-technology-third/76156>
- [7] Wahied Gharieb Ali Abdelaal *et al.*, "10th IEEE International Conference on Computer Engineering and Systems (ICCES)", Proceedings Editors, Dec. 23-24, 2015, Cairo, Egypt. IEEE Catalog Number: CFP1554A-ART, ISBN: 978-1-4673-9971-5. http://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=36596

International Journals

() the original version is published in an international conference*

- [1*] Gamal M. Aly and Wahied G. Ali, "**Digital Design of Variable Structure Control Systems**", Int. J. SYSTEMS SCI, Vol.21, n°8, pp.1709-1720, 1990.
<http://www.tandfonline.com/doi/abs/10.1080/00207729008910487>
- [2*] G. Nagib, W. Gharieb and Z. Binder, "**Qualitative Multimodel Control Using Learning Approach**", Int. J. SYSTEMS SCI, Vol.23, n°6, pp.855-869, 1992.
<http://www.tandfonline.com/doi/abs/10.1080/00207729208949254>
- [3] W. Gharieb, P. Chai, Z. Binder and B. T. David, "**Expert Multimodel Location Diagnosis**", European Journal of Diagnosis and Safety in Automation, Vol. 2, N°1, pp.37-49, 1992.
- [4] G. Nagib, W. Gharieb and Z. Binder, "**Self Organizing Qualitative Multimodel Control**", Lecture Notes in Computer Science #682 "IPMU'92 Advances Methods in Artificial Intelligence", pp.199-208, 1993.
- [5] W. Gharieb, "**Fuzzy Control to Non-Minimal phase Processes**", Sci Bull. Fac. Eng, Ain Shams Univ., Part II, Electrical and Mechanical Eng.,Vol. 34, N°2, pp.215-224, 1999.
- [6] W. Gharieb and G. Nagib, "**Fuzzy Guidance Control for a Mobile Robot**", Sci Bull. Fac. Eng, Ain Shams Univ., Part II, Electrical and Mechanical Eng.,Vol.34, N°4, pp.577-588, 1999.
- [7] W. Gharieb and G. Nagib, "**Fuzzy Interventiom in PID Controller Design**", Sci Bull. Fac. Eng, Ain Shams Univ., Part II, Electrical Engineering, Vol.36, N°2, pp.401-410, 2001.
- [8] W. Gharieb and G. Nagib, "**Fault Diagnosis in a Flexible Link Robot**", Sci Bull. Fac. Eng, Ain Shams Univ., Part II, Electrical Engineering, Vol.38, N°2, pp.469-428, June 2003.
- [9] A. M. Wahdan, W. Gharieb, and M. M. Attiah, "**A Practical Genetic Algorithm for Obstacles Avoidance Robot Motion Planning**", SCIENTIFIC BULLETIN Faculty of Engineering, Ain Shams Univ., part II: Electrical Engineering Vol. 41, N° 1, PP. 719-729, March 2006.
- [10*] W. Gharieb, "**Creep Compensation in Piezoelectric Actuators for Nanopositioning Technology**", Int. J. Nanomanufacturing, Vol. 4 Nos. 1/2/3/4, pp.267-273,2009. DOI: 10.1504/IJNM.2009.028134
<http://www.inderscience.com/info/inarticle.php?artid=28134>
- [11*] W. Gharieb, "**Sliding Mode Control for Nanopositioning Platforms**", Journal. of Materials Science and Engineering, Vol. 3, No. 6 (serial number 19), pp. 1-8, June 2009
<http://www.davidpublishing.com/davidpublishing/Upfile/8/3/2012/2012080301990709.pdf>
- [12] W. Gharieb, "**Fuzzy Assessment Algorithm for Ladder Programming**", Journal of King Saud University JKSU – Engineering Sciences, Volume 22, No.1, pp.41-49, 2010.
- [13] Basem B. badr and Wahied G. Ali, "**Nanopositioning Fuzzy Control for Piezoelectric Actuators**", Int. J. of Engineering & Technology IJET-IJENS Vol:10, No. 01, pp.70-74, Feb. 2010.
<http://www.ijens.org/108301-6262%20IJET-IJENS.pdf>
- [14] Gihan Nagib and Wahied G. ALI, "**Network Routing Protocol using Genetic Algorithms**", Int. J. of Electrical & Computer Sciences, Vol:10, No. 02, April, 2010.
<http://ijens.org/104302-8686%20ijecs-ijens.pdf>
- [15] W. Gharieb, "**A Semi-autonomous Robotic Platform for Education and Research**", Journal of King Saud University, Volume 23, Engineering Sciences (No.2), pp.131-138. 2011.
<http://www.sciencedirect.com/science/article/pii/S1018363911000316#>
- [16*] Wahied G. ALI and G. Nagib, "**Embedded Control Design for Insulin Pump**", Int. J. of Advanced Materials Research- "ICMSE2011: Advanced Manufacturing Systems", Vols.201-203, pp.2399-2404, 2011. (SCI Journal). <http://www.scientific.net/AMR.201-203.2399>
- [17*] Basem M Bader and Wahied G. ALI, "**Applications of Piezoelectric Materials**" Int. J. of Advanced Materials Research- "ICMSE2011: Manufacturing Process Technology", Vos.189-193, pp.3612-3620, 2011. (SCI Journal). <http://www.scientific.net/AMR.189-193.3612>
- [18] Ahmed A. Telba and Wahied G. Ali, "**Real Time Measurements of Hysteresis in a Piezoelectric Nanopositioning Stage**", Journal of Instruments and Experimental Techniques, Vol.55, No.4, 2012.

- ISSN 0020_4412, No.4, pp. 508–512, July-1, 2012. (IF=0.361). Open Access Springer link, <http://link.springer.com/article/10.1134%2FS0020441212030141#page-1>
- [19] Sutrisno W. Ibrahim and Wahied G. Ali, “**A Review on Frequency Tuning Methods for Piezoelectric Energy Harvesting Systems**”, *J. Renewable Sustainable Energy* **4**, 062703 (2012); <http://dx.doi.org/10.1063/1.4766892> (29 pages), *Impact factor=1.2*, **Published** on line 13 November 2012.
<http://jrse.aip.org/resource/1/jrsebh/v4/i6?§ion=review-articles&page=1>
- [20] Wahied G. Ali and Sutrisno W. Ibrahim, “**Power Analysis for Piezoelectric Energy Harvester**”, *Energy and Power Engineering*, Vol. 4, No. 6, 2012, pp. 496-505. *Impact factor =0.12*, doi: 10.4236/epe.2012.46063.
<http://www.scirp.org/journal/PaperInformation.aspx?paperID=25084>
- [21*] Sutrisno W. Ibrahim and Wahied G. ALI, “**Power Enhancement for Piezoelectric Energy Harvester**”, *Lecture Notes in Engineering and Computer Science*, ISSN 2078-0958 (open access journal), volume 2198, Issue 1, pp.1018-1023, 2012.
http://journaldatabase.org/articles/power_enhancement_for_piezoelectric.html other link
<http://www.doaj.org/doaj?func=abstract&id=1098149&recNo=66&toc=1&uiLanguage=en>
- [22*] A. Telba and Wahied G. Ali, “**Modeling and Simulation of Piezoelectric Energy Harvesting**”, *Lecture Notes in Engineering and Computer Science*, ISSN 2078-0958 (open access journal) Volume 2198, Issue 1, pp.959-961, 2012.
http://journaldatabase.org/articles/modeling_simulation_piezoelectric.html other link
<http://www.doaj.org/doaj?func=abstract&id=1098138>
- [23] Mohamed M. El Rayes, Gihan Nagib, and Wahied G. Ali Abdelaal, "**A Review on Wireless Power Transfer**", *International Journal of Engineering Trends & Technology (IJETT)*, Volume 40, Nb. 5, **October** 2016, ISSN: 2231-5381. <http://www.ijettjournal.org/archive/ijett-v40p244>

(*) *An extended version is published in a journal*

International Conferences and Symposia

- [1] M. Habashi and W. Gharieb, "**Student's Information System**", Int. Conf. of Statistics, Ain Shams University, Cairo EGYPT, 1987.
- [2] A. Badr, W. Gharieb and Z. Binder, "**Multimodel Variable Structure Control System**", Proc. 30th IEEE CDC, Vol.2, pp.2068-2073, Brighton, U. k., 1991.
<http://ieeexplore.ieee.org/iel5/607/6597/00261784.pdf>
- [3] W. Gharieb, P. Chai, Z. Binder and B. T. David, "**Expert Multimodel Location Diagnosis**", Proc of IMACS-IFAC Symposium, vol. 2, pp.546-551, Lille, FRANCE, 1991.
- [4] G. Nagib, W. Gharieb and Z. Binder, "**Self Organizing Qualitative Multimodel Control**", Proc.of IPMU'92, pp.601-605, SPAIN, 6-10 July 1992.
- [5] G. Nagib, W. Gharieb and Z. Binder, "**Application of Fuzzy Control to a Non-Linear Thermal Process**", Proc. of 31st IEEE CDC, Vol 1/4, pp.1154-1159, USA 1992.
- [6] G. Nagib, W. Gharieb and Z. Binder, "**Fault Diagnosis in Dynamic Systems Using Qualitative Parameter Identification**", Proc. of TOOLDIAG'93, Vol 3/3, pp.850-854, Toulouse, FRANCE, 5-7 April 1993.
- [7] G. Nagib and W. Gharieb "**Further Evaluation of Self Organizing Qualitative Multimodel Control**", Proc. of 12 IFAC World Congress, Vol. 7/10, pp.475-478, Sydney AUSTRALIA, 19-23 July 1993.
- [8] W. Gharieb and G. Nagib, "**Fuzzy Control to Multivariable Systems Case Study: Helicopter Model**", Proc. of 5th IEEE Int. Conf. on fuzzy systems, Luisiana U.S.A., New Orleans, vol. 1/3, pp.400-405, Sept. 8-11, 1996.
- [9] W. Gharieb and M. A. Shierah, "**Fuzzy Retuning PI Controller**", IFAC-IFIP-IMACS Conf. on Control of Industrial Systems, Belfort, FRANCE, Vol 2/3, pp. 167-171, May 20-22, 1997.

- [10] W. Gharieb, "**Fuzzy Control Design By Learning**", Proc. of 5th Conf. on Artificial Intelligence Applications, pp. 324-334, Cairo EGYPT, February 27-March 3, 1997.
- [11] W. Gharieb, "**Hardware Fuzzy Logic Kit Design**", Proc. of 6th IEEE Int. Conf. on Fuzzy Systems, vol. 2/3, pp. 1039-1043, Barcelona SPAIN, July 1-5, 1997.
- [12] W. Gharieb and G. Nagib, "**Simulink Fuzzy Logic Library**" Proc. of 6th Conf. on Artificial Intelligence Applications, Cairo EGYPT, PP.35-42, February 18-22, 1998.
- [13] M. M. Sabyh, Ibrahim Helal, A.M.A. Mahmoud, A. K. El-Kharashi and W. Gharieb, "**Energy Management Using Fuzzy Optimization Technique**", Proc. of 6th Int. Middle East Power System Conf. MEPCON'98, Mansoura EGYPT, PP.64-69, Dec. 15-17, 1998.
- [14] W. Gharieb, "**Fuzzy Control to Non-Minimal Phase Processes**", Proc. Int. Conf. on Computational Intelligence, 6th Fuzzy Days in Dortmund, GERMANY, Lecture Notes#1625, PP.363-369, Springer-Verlag, May 25-27, 1999.
- [15] W. Gharieb and G. Nagib, "**Fuzzy Guidance Control for A Mobile Robot**", Current advances in Mechanical Design and Production 7th Cairo University International MDP Conference, pp.67-74 , Cairo EGYPT, February 15-17, 2000.
- [16] W. Gharieb and G.Nagib, "**Smart Cane For Blinds**", 9th Int. Conf. on Artificial Intelligence Applications, pp.253-262, Cairo EGYPT, February 7-10, 2001.
- [17] W. Gharieb and G. Nagib, "**Fuzzy Intervention in PID Controller Design**", IEEE Int. Symposium on Industrial Electronics, Pusan, Korea, June 12-16, 2001.
- [18] A. A. Abd El-Wahab and W. Gharieb, "**Interactive Shooting Simulator Design**", 4th Mansoura Int. Eng. Conf. (MIEC), Sharm El-Sheikh, April 20-22, EGYPT, 2004.
- [19] W. Gharieb, "**Integrated Control for Discrete Event Systems**", Proc. of Int. Conf. on Electrical, Electronic and Computer Engineering (ICEEC'04), PP. 377-382, Cairo-EGYPT, September 5-7, 2004 .
- [20] G. Nagib and W. Gharieb, "**Path planning for a Mobil Robot using Genetic Algorithms**", Proc. of Int. Conf. on Electrical, Electronic and Computer Engineering (ICEEC'04), PP. 185-189, Cairo-EGYPT, September 5-7, 2004 .
- [21] W. Gharieb, "**Optimal Elevator Group Control Using Genetic Algorithms**", 1st Int. Conf. On Advanced Control Circuits & Systems (ACCS'05), Cairo – EGYPT, March 6-10, 2005.
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