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Ahmad Mohamad EL Fallah Ismail

Academic Lecturer (PhD Electrical and Electronic Engineering)

Personal Information

D/P.O.B	05-06-1982 / Gharian - Libya.
Nationality	Libyan
Marital status:	Married.
Profession	Control and instrumentation (C&I) engineer

Education & Qualification

Degree	Date	Subject
PhD	**2015**	Electrical and Electronic Engineering (Control Systems) / Sam Higginbottom University of Agriculture, Technology and Sciences (SHUATS) / Allahabad- India.
MSc	2011	Electrical and Electronic Engineering (Control Systems) / Sam Higginbottom University of Agriculture, Technology and Sciences (SHUATS) / Allahabad- India.
MSc - Diploma	2008	Electrical and Electronic Engineering (Control Systems) / Tripoli University / Tripoli – Libya.
BSc	2006	Faculty of Engineering - Electric and Electronic department / Al-Jabal Al-Gharbi University / Gharian –Libya
Libyan H.S	2000	Alrabta of High Scholol/ Gharian- Libya
British P.S	1996	Alrabta of Primary School / Gharian- Libya.

Work &Experience

Profession	Subject	Date
Academic Lecturer (Full time job)	At University of Gharian, Faculty of Engineering,(Electric & Electronic department)	2018 – Present
Teaching Assistant (Full time job)	In the Al-Jabal Al-Gharbi University Faculty of Engineering, (Electric & Electronic department)	2008 – 2010

Electric power network Engineering (Full time job)	The Pharmaceutical Factory of Alrabta	2007 – 2010

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Academic Achievements

Publications

- "*Enhancement of Static & Dynamic Response of the Three Phase Induction Motor Under the Effect of the External Disturbances and Noise"*, International Journal of Electrical Engineering and Technology (IJEET), 2014.
- "*Modeling, Simulation and Performance Analysis of the Three Phase Permanent Magnet Brushless Direct Current (PMBLDC) Motor Using Neuro-Fuzzy Controller Based Genetic Algorithm* ", International Journal of Current Research, Issue, 01, pp.20225-20236, Janu 2022.
- "*Competence Amelioration of PMBLDC Motor using LQR- PID, Kalman Filter- PID and LQG Based on Kalman Filter-PID optimal Controllers for disturbance attenuation"* Surman Journal for Science and Technology, Vol3, No.1, Dec_2021 , pp. 115~ 132.
- "*Enhancement of Static & Dynamic Response of the Three Phase Induction Motor under the Effect of the External Disturbances and Noise by using Hybrid Fuzzy-PID Controller*" International Journal of Electrical Engineering &Technology (IJEET), Journal Impact Factor (2014): 6.8310 (Calculated by GISI), Volume 5, Issue 12, December (2014), pp. 295-309.
- "*Design A Hybrid Intelligent Controller (Fuzzy-Based Ant Colony Algorithm) For Improving A Tracking Performance of Actual Output Response of SEDC Motor Under The Effect of External Disturbances"* International Journal of Electrical, Electronics and Data Communication (IJEEDC), Volume-1, Issue-2, April-2013.
- "*Enhancement of stability and accuracy of the SEDC Motor under the effect of the external disturbances and noise by using Fuzzy-Neuro Controller*" International Journal of Scientific Engineering and Technology Research Volume.02, IssueNo.01, Jan-2013, Pages:18-25.
- "*Designing a Phase Lead, Phase Lag and Phase Lag-Lead Compensators using Frequency Response Technique for Performance Evaluation of the Hybrid Stepper Motor*", مجلة الليبية للعلوم الأنسانية والتطبيقية, العدد الثالث عشر, 2021.
- "*Enhancement of stability and accuracy of the SEDC Motor under the effect of the external disturbances and noise by using Fuzzy-Genetic controller*" International Journal of Scientific Engineering and Technology Research Volume.02, IssueNo.01, Jan-2013, Pages:07-17.
- "*Enhancement of Stability and Accuracy of the SEDC Motor under the Effect of the External Disturbances and Noise by Using PID Controller*" Int. J. on Recent Trends in Engineering and Technology, Vol. 6, No. 1, Nov 2011.

Academic taught courses
(Courses given up to now)
2018 – On going

- EECN431: Control Lab I.
- EECN541: Control Lab II.
- EECM522 ,EECN532 , EECP582: Digital Signal Processing.
- EECN544: Modern Control Systems.
- EECN545: Modeling and Simulation.
- EECN549:Special Topic in Control.
- EE611: Linear Systems.
- EE616:Modern Control engineering.
- EE612: Nonlinear system.
- EECN437: Digital Control.

Academic projects
"Supervisor"

- Design and implementation smart irrigation system based on IoT, 2022/2023.
- Detection of Liver Cancer using Image Processing Techniques, 2022/2023.
- Automatic Car Parking System, 2022/2023.
- Energy efficient IoT based on wirless sensor network for healtcare, 2022/2023.
- Design and implementation of a tracking and positioning system using the Internet of Things, 2021/2022.
- Modeling and Simulation for Performance Evaluation of The Three Phase BLDC Motor with Phase Lead-Lag Compensator Design using Frequency-Response Technique, 2020/2021.
- Wireless Sensor Monitoring System Using Radio Frequency Technology, 2020/2021.
- Down Link & Receiving Earth Station Design from Two Operating RSS, 2020/2021.
- Smart Building IoT Technology, 2018/2019.
- Modeling Simulation of a Solar Tracking System for improving the performance of a photovoltaic panel, 2018/2019.
- Monitoring of electrical transformer parameters using Internet of Things (IoT), 2020/2021.
- Controlling the nursery with the Arduino microcontroller
- (Measuring temperature, humidity, carbon dioxide, heart rate and air quality), 2021/2022.

Skills & Abilities

Language	• Arabic, Native Arabic speaker. • English.	I've studied in England for about 7 years
Computer	• Microsoft office MS • Tools + Software's: ➢ JAVA ➢ C & C++ language ➢ Proteus Program ➢ MicroC program ➢ Arduino IDE program ➢ MATLAB/SIMULINK program ➢ Python Programming Language	
Personal skills	• High level of communication & negation (Dealing with English and Arabic languages) Fluent English, with full capability of daily office editing bilingual correspondence and translation Arabic & English. • Deep background knowledge in design & analysis skills and able to work in a team. • High level in giving presentations. • Teamwork: Accustomed to working in groups during academic projects and range of society involvements**.** • Problem Solving: Able to deal with problems calmly and efficiently. • Arranging long, medium and short scheduled teaching programs with the required teaching materials.	

Certifications

- International Computer Driving License (ICDL).
- Post Graduate Diploma in Industrial Automation (PGDIA).
- National Workshop on Scientific/Research Paper Writing.
- Web Design.
- Diploma in Laptop Chip Level Repairing.
- Cisco Certified Network Associates- R&S.
- Advanced Optical Fiber Communication System Designing Using Optisystem.
- Advanced VLSI Design Automation.
- Siemens PLC Workshop.
- Advanced in Solar Energy Technology.

References available on request.