Curriculum Vitae

Name: Ahmed J. Abougarair
Academic Degree: Associate Professor
Place of Work: University of Tripoli- Libya.

Collage: Faculty of Engineering
Department: Electrical and Electronic Engineering

PERSONAL DETAILS

Sex: Male
Date and Place of Birth: January 1975, LIBYA
Marital Status: Married
Email: a.abougarair@uot.edu.ly
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Research gate:
https://www.researchgate.net/profile/Ahmed_Abougarair

Publons Profile:
https://publons.com/dashboard/summary/

Google Scholar:
https://scholar.google.com/citations?user=G63wZ6UAAAAJ&hl=en

Linkedin Profile:
https://www.linkedin.com/in/ahmed-j-abougarair-a68690204/

LANGUAGES AND QUALIFICATION
☐ Excellent command of Arabic and English.

EDUCATION

PhD: 2018.   **MSc:** 2006.   **BSc:** 1998.

LEADERSHIP AND MANAGENMENT EXPERIENCE

☐ Committee member of reviewing files and transcripts of graduates at EEE department.

☐ Administrator of EEE department Facebook page.

☐ Director of the Administrative Quality Assurance Unit at EEE department

☐ Quality Assurance Unit at faculty of engineering – Member

☐ Quality Assurance and Projects – Coordinator.

☐ Control and computer Lab. Coordinator.
☐ Member of the organization committee for the Fourth Libyan International Conference on Electrical and Electronic Engineering, 20-23/3/2006.

☐ Member of the organization committee for the Fifth Libyan International Conference on Electrical and Electronic Engineering, 2010.

☐ Member of the organization committee for the Libyan International Conference on Electrical Engineering and Technologies (LICEET2018), Tripoli, Libya, 3-5Mar. 2018.
☐ Member of the scientific committee of the First Conference for Engineering Sciences and Technology (CEST-2018), Sep. 25-27, 2018, Garaboulli, Libya.

☐ Member of the Committee for the establishment of courses, subjects and laboratories for Biomedical Engineering at the University of Tripoli, 2020, Libya.
☐ Member of the Admission Committee for Postgraduate Students, Department of Electrical and Electronic Engineering.
☐ Member of the Admission Committee for Postgraduate Students, Department of Management Engineering.
☐ Member of the scientific committee of the IEEE 1st Maghreb Meeting of the International conference on Sciences and Techniques of Automatic control and computer, 25-27 MAY ,2021, Tripoli, Libya.
☐ Member of the scientific committee of the Libyan Innovation Prize, 4-7 October ,2021, Tripoli, Libya.
☐ Member of the scientific committee of 1st Mosharaka International Conference on Control and Systems Engineering, 10-12 December 2021, Valencia, Spain.
☐ Member of the Technical program committee of 1st Mosharaka International Conference on Control and Systems Engineering, 10-12 December 2021, Valencia, Spain.
☐ Member of the scientific committee of Second IEEE International Conference on Signal, Control and Communication (SCC 2021), 20-22 December 2021, Tunisia.
☐ Member of the scientific committee of Conference on Electrical Engineering & Information Technology (ICEEIT2021), 30-31 October 2021, Benghazi, Libya.

☐ Scientific chair in Conference on Electrical Engineering & Information Technology (ICEEIT2021), 30-31 October 2021, Benghazi, Libya.

☐ Member of the scientific committee of the IEEE 2nd Maghreb Meeting of the International conference on Sciences and Techniques of Automatic control and computer, 25-27 MAY ,2022, Sabrata, Libya.

☐Member of the scientific committee of the Libyan Innovation Prize, 4-7 October ,2022, Tripoli, Libya.

☐ Member of the Technical program committee of the 8th International Conference on Engineering & MIS 2022, Turkey, 4-6 July, 2022.

☐ Member of the Technical program committee of the First Libyan International Conference

On Engineering Science and Applications 13-15 March 2023.

☐Supervising more than 30 undergraduate and postgraduate projects.

☐ Secret reviewer for M. Sc theses in university of Tripoli and The Libyan Academy for Postgraduate Studies.

PROFESIONAL ACTIVITIES

☐ Reviewer for Azzetona University Journal.

☐ Member of editorial team of International Journal of Applied Science.

☐ Reviewer for Automation, Control and Intelligent Systems Journal.

☐ Editor member for Automation, Control and Intelligent Systems Journal.

☐ Reviewer for International Robotics & Automation Journal.

☐ Reviewer for WSEAS Transactions on Systems and Control Journal.

☐ Reviewer for WSEAS Transactions on Mathematics Journal.

☐ Reviewer for Journal of Engineering Research and Reports.

☐ Editor for International Journal of Robotics and Control Systems.

☐ Reviewer for The International Journal of Engineering and Information Technology (IJEIT)

☐ Reviewer for Journal of Engineering Research and Technology (JERT), ISSN 2312-2307.
☐ Member of editorial team of International Journal of Robotics and Automation Technology.

☐ Guest Editor in a Special Issue, Automation, Control and Intelligent Systems, Artificial Intelligence

Enhanced Manufacturing Automation Control Systems and Robotics,2022.

COMPUTER SKILLS

☐ Excellent use of Microsoft Word.

☐ Excellent use of Mendeley Software.

☐ MATLAB and C++

☐ Python

RESEARCH INTERESTS

- *Intelligent control*
- *Neural networks*
- *Computer control system*
- *Genetic algorithms*
- *Robotics and Adaptive control*
- *Nonlinear control System*
- *Fuzzy Logic System*
- *Application of control System in Biomedical Engineering*

Papers Published

1- **Ahmed J. Abougarair,**" *Design and Simulation of Adaptive Controller for Nonlinear System Using Artificial Neural Network*". The fourth Libyan Arab International Conference on Electrical and Electronic Engineering, March 20-23, 2006, Libya.

2- **Ahmed J. Abougarair,** " *Neural Networks Techniques Applied to Enhancement of Closed- Loop Controller for Real Plant with Unknown Nonlinearities* ", International Conference on Aeronautical Science and Air Transportation, ICASAT, 2007, Libya.

3- **Ahmed J. Abougarair**, Elfituri Lahmer, and Abdhamed M. Alcrewi," *Identification Of An Acceptable Nonlinear Model Using Optimization Of Linear Identification And Artificial Neural Networks* ", ICCNDT 2012, Bahrain.

4- **Ahmed J. Abougarair,**"*Hydrogen and Fuel Cells Towards a Sustainable Energy Future*", ICEECMPE International Conference, November 2013, India.

5- **Ahmed J. Abougarair,** "*Intelligent Controller Design for Nonlinear Chemical Process using neural Networks*", International Academic Conference on Electrical, Electronics and Computer Engineering (IACEECE), 2013.

6- **Ahmed J. Abougarair,** "*Simulation of the Different Position on the E-type Round Diaphragm and the Length of the Beam*", IOSR Journal of Electrical and Electronics Engineering, Volume 7, Issue 5, www.iosrjournals.org, 2013.

7- **Ahmed J. Abougarair**, " *Design and Simulation Observer Based Controller for Nonlinear System Based Feedback Linearization*", International Journal of Electrical, Electronics and Data communication, Vol. 2, Issue1, 2014.

8- **Ahmed J. Abougarair,** " *Measuring The Difference Between PID And FLC for DC motor*", International Journal of Electrical, Electronics and Data Communication, Volume-2, Issue- 10, 2014

9- **Ahmed J. Abougarair,**"*Modelling and Different Controller Design for Stabilizing Nonlinear System*", Azzaytuna University Journal , 2015.

10- **Ahmed J. Abougarair**, " *Simulation Studies of Continuous Stirred Tank Reactor Using Artificial Neural Network Based Supervised Control Method* ", The 1st International Conference on Chemical, Petroleum, and Gas Engineering (ICCPGE 2016), 20– 22 December 2016, Libya.

11- **Ahmed J. Abougarair** ," *Segmentation of road borders Based on Texture Features*", Azzaytuna University Journal , 2016.

12- **Ahmed J. Abougarair** ," *Mobile Robot Trajectory Tracking Using Combined Two Level Controllers*", Azzaytuna University Journal ,pp 21-41,Vol. 2, Issue 23, 2017.

13- **Ahmed J. Abogarair** , " *Design PID Controller using Dynamic Programming Algorithm Techniques under MATLAB/SIMULINK Applied to a Real Plant*", The IRES 135th international conference, 2018, Moscow, Russia.

14- **Ahmed J. Aboguarair**,"*Intelligent Control Design for Linear Model of Active Suspension System*, 30th International Conference on Microelectronics (IEEE), 2018,Tunisia.

15- **Ahmed J. Abougarair** ," *Balancing Control of Two Wheeled Mobile Robot Based on Decoupling Controller*", International Journal of Control Systems and Robotics, 2018.

16- **Ahmed J. Abougarair**,"*Optimal Control Design For Wheeled Mobile Robot*", Almadar Journal for Communications, Information Technology, and Applications, Vol. 05, No. 01, 2018.

17- **Ahmed J. Abougarair**,"*Dynamic Modeling and Hybrid Controller Design for Two Wheeled Self-balancing Robot* ", Almadar Journal for Communications, Information Technology, and Applications, Vol. 05, No. 01 ,2018.

18- **Ahmed J. Abougarair**,"*Virtual Reality Animation of ANFIS Controller for Mobile Robot Stabilization*", Journal of Engineering Research, No. 25, 2018.

19- **Ahmed J. Abougarair,**"*Optimal Estimator Design Based on Optimal Controller*",Libyan International conference on Electrical engineering and technology, LICEE 2018.

20- **Ahmed J. Abougarair**,"*Model Reference Adaptive Control And Fuzzy Optimal Controller For Mobile Robot*", Journal of Multidisciplinary Engineering Science and Technology, pp 9722-9728,Vol. 6, Issue 3, *2019*, Germany.

21- **Ahmed J. Abougarair**,"*Controllers Comparison To Balancing And Trajectory Tracking A Two Wheeled Mobile Robot*", International Robotics & Automation Journal, Vol. 5, Issue 1, 2019.

22- **Ahmed J. Abougarair**," *The Solution of The Problem of Pfraud in The Papers by Using Inert Chip (TAG)*", Azzaytuna University Journal, Vol. 5, Issue 31, September 2019.

23- **Ahmed J. Abogarair***,"Robust Control and Optimized Parallel Control Double Loop Design for Mobile Robot ",* IAES International Journal of Robotics and Automation (IJRA), Vol. 9, No. 3, 2020.

24- **Ahmed J. Abogarair***, "* Neural Networks Identification and Control of Mobile Robot Using Adaptive Neuro Fuzzy Inference System", ICEMIS'20: Proceedings of the 6th International Conference on Engineering & MIS 2020, September. 2020, https://doi.org/10.1145/3410352.3410734.

25- **Ahmed J. Abougarair ,** Hanadi Gnan, Abdulhamid Oun and Saadedin Elwarshfani *"Implementation of a Brain-Computer Interface for Robotic Arm Control",* 2021 IEEE 1st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA2021),25-27 may,2021, Tripoli, Libya.

26- **Ahmed Abougarair ,** Mohamed Edardar, *"Tracking Control with Hysteresis Compensation Using Neural Networks",* 2021 IEEE 1st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA2021),25-27 may,2021, Tripoli, Libya.

27- **Ahmed Abougarair,** Shada Elwefati and Moftah Bakush**,** *"Control of Epidemic Disease Based Optimization Technique",* 2021 IEEE 1st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA2021),25-27 may,2021, Tripoli, Libya.

28- **Ahmed Abougarair, Weiam Saheri and Nasar Aldian Shashoa,** *"Recursive Least Squares Algorithm for MISO CARAMA Systems Utilizing Data Filtering",* 2021 IEEE 1st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA2021),25-27 may, 2021, Tripoli, Libya.

29- **Ahmed J. Abogarair,** Mohamed Edardar, Nasar Aldian Shashoa and Wael Ataeeb," Adaptive Traffic Light Dynamic Control Based on Road Traffic Signal from Google Maps", The 7th International Conference on Engineering & MIS 2021 *(*CEMIS'21*)*, October 11–13, 2021, Almaty, Kazakhstan, *https://doi.org/10.1145/3492547.3492584*.

30- Nasar Aldian Ambark Shashoa, **Ahmed J. Abougarair** Fault Detection Based on Validated Model of Data Filtering Based Recursive Least Squares Algorithm For Box-Jenkins Systems, 2021 Global Congress on Electrical Engineering (GC-ElecEng 2021), 10-11 December 2021, Valencia, Spain.

31- **Ahmed J. Abougarair ,** Mohammed Edardar**,** Adaptive Neural Networks Based Robust Output Feedback Control for linearized System, WSEAS Transactions On Computer Research, pages: 125-136, DOI: 10.37394/232018.2021.9.15 ,Volume 9, 2021.

32- **Ahmed J. Abougarair,** Nasar Aldian Ambark Shashoa, Model Reference Adaptive Control for Temperature Regulation of Continuous Stirred Tank Reactor, Second IEEE International Conference on Signal, Control and Communication (SCC 2021), December 20 – 22, 2021, Tunisia.

33- Mohammed Edardar**, Ahmed J. Abougarair,** Online inversion of a nonlinear operator model using slope-intercept method, The 4th Conference on Engineering Science and Technology (CEST-2021).

34- Mohammed Edardar**, Ahmed Abougarair,** Lyapunov Redesign of Piezo Actuator for Positioning Control, 9th International Conference on Systems and Control. November 24-26, 2021, ENSICAEN, Caen, France.

35- **Ahmed J. Abougarair,** Ali Ben-Ashour and Adel A. Abosdel**,** Simulation Design and Hardware Implementation of Optimization Real Traffic Light Control System**,** International science and technology Journal, 2022.

36- *Ahmed J. Abougarair,* Mohamed K. I. Aburakhis, Mohamed M. Edardar*,* Adaptive Neural Networks Based Robust Output Feedback Controllers for Nonlinear Systems, International Journal of Robotics and Control Systems, Vol. 2, No. 1, 2022, pp. 37-56, ISSN: 2775-2658, http://pubs2.ascee.org/index.php/ijrcs.

37- *Ahmed J. Abougarair,* Mohamed K. Aburakhis*,* Design and implementation of smart voice assistant and recognizing academic words, International Robotics & Automation Journal, Volume 8 Issue 1 – 2022.

38- *Ahmed J. Abougarair,* Nasar Aldian Ambark Shashoa, Integrated Controller Design for Underactuated

Nonlinear System, IEEE, Second International Conference on Power, Control and Computer Technologies (ICPC2T-2022), 1-3 March 2022.

39- *Ahmed J. Abougarair,* Electroencephalography Based Control Approaches to Wheelchair and Robot Arm Control, Al academia journal for Basic and Applied Sciences (AJBAS) volume 4/No. 1 April – 2022.

40- **Ahmed J. Abougarair**, "Real Time Classification for Robotic Arm Control Based Electromyographic Signal*",* 2022 IEEE 2st International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA2022), 23-25 may,2022, Sabrata, Libya.

41- Nasar Aldian Ambark Shashoa**, Ahmed J. Abougarair,** "Loads Instability Study of the Gas Turbine Blades for Al- Khums Power Station", 2022 IEEE Sponsored Second International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2022), 21 - 22, April 2022, India.

42- **Ahmed J. Abougarair, "**Tracking Control of a Continuous Stirred Tank Reactor Using Advanced Control Algorithms ", IJEIT International Journal on Engineering and Information Technology, vol.8, no. 2, Misrata, June 2022.

43- Munya Ali Arwin, Weiam Ali Saheri, Nasar Aldian Ambark Shashoa, **Ahmed J. Abougarair,** Overview on Fault Detection and Isolation, 1st International Conference on Engineering and May 10-13, 2022, Konya, Turkey.

44- **Ahmed J. Abougarair**, Nagmden Miled Nasser, Abdulhamid A. Oun, Traffic Sign Classification Using Deep Learning Based Convolutional Neural Networks, Azzaytuna University Journal, issue 42, pp. 306-326,2022.

45- **Ahmed J. Abougarair**, Nasar Aldian A. Shashoa, Mohamed K. Aburakhis, Performance of Anti-Lock Braking Systems Based on Adaptive and Intelligent Control Methodologies, Indonesian Journal of Electrical Engineering and Informatics (IJEEI), 2022.

46- **Ahmed J Abougarair,** Mohammed Elmaryul, Mohamed K Aburakhis**,** Real time traffic sign detection and recognition for autonomous vehicle, International Robotics & Automation Journal, Volume 8 Issue 2 – 2022.

47- **Ahmed J Abougarair,** Position and Orientation Control of a Mobile Robot Using Intelligent Algorithms Based Hybrid Control Strategies, Journal of Engineering Research (University of Tripoli), Issue (34), pp 67-86, September 2022.

Books Published

1- Fundamentals & Applications of Matlab for Engineering Students & Researcher, *Ahmed J. Abougarair* ,Published by Dar Alhekma, First Edition, 2018.

2- Control System Engineering with Matlab, First Edition, *Ahmed J. Abougarair* (Under the process of printing), 2022.

3- Fundamentals & Applications of Matlab for Engineering Students & Researcher, *Ahmed J. Abougarair* (Under the process of printing), Second Edition, 2022.