

CURRICULUM VITAE

Dr. ALI MOHAMED ELMELHI

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University of Tripoli.

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PERSONAL DATA

SEX: Male

Date and place of birth: May 1967, LIBYA, GARABULLI

NATIONALITY: LIBYAN

MARITAL STATUS: Married

EDUCATION DATA

2005

Degree: Ph.D.

Area: Navigation , Guidance and Control.

Place of Education: Beijing University of Aeronautical and Astronautical

[BUAA University], Public China

1995

Degree: MS.c.

Area: Electrical Engineering [Research in Control Field].

Place of Education: Technical Collage, Egypt

1989

Degree: BS.c.

Area: communication engineer.

Place of Education: Engineering Academy, Tajora, Libya

WORK EXPERIANCE

- Advisory of Autopilot control design group in Research Center and Development, Tripoli - Libya. Within 1996 – 2000.
- Researcher in Guidance and Control of the aerospace launch vehicle in the Research Center and Development, Tripoli - Libya. Within 1990-2001.
- Director and Deputy Director of Electronics Department in research center and development during 1998 to 2000.
- Lecturer and project supervisor for BS.c and MS.c students in electrical engineering department, faculty of engineering, university of Tripoli in the field of modeling and design applications of control techniques for dynamic systems.
- Lecturer and thesis supervisor MS.c students in Libyan academy for postgraduate studies in the field of modeling and control design.
- I have Discussion of many master's theses in Libya.
- Member of study and examinations in the Department of Electrical Engineering during 2009.
- Working as a reviewer of science papers in Libyan International Conference on Electrical Engineering and Technologies (LICEET2018), 7 – 3 March 2018, Tripoli - Libya
- Working as a reviewer of science papers in the Libyan Arab International Conference on Electrical and Electronic Engineering 2010, Tripoli-Libya.
- Member of the scientific committee as reviewer at the IEEE 1st Maghreb Meeting of the International conference on Sciences and Techniques of Automatic control and computer, 25-27 MAY ,2021, Tripoli, Libya.
- Working as a control division coordinator in electrical engineering department, Faculty of engineering, university of Tripoli.

AREA OF EXPERTISE

- 1- Control system design and analysis
- 2- Intelligence including fuzzy, neural and genetic algorithms
- 3- Optimization for control engineering.
- 4- Optimal and adaptive control design.
- 5- Nonlinear control design and analysis.
- 6- Satellite dynamic and control systems
- 7- Identification and estimation theory.
- 8- Flight control for aircraft and launch vehicles.
- 9- Vessel Autopilot control design.**

PUBLICATIONS

- [1]- MOHAMED ELMELHI ALI, yu xiang Jiang, " FUZZY DYNAMIC INVERSION DESIGN FOR ATTITUDE CONTROL MOTION", Eleventh International Fuzzy Systems Associated World Congress, vol.II, July 28-31, 2005, Beijing, China, 760-765.
- [2]- Ali Mohamed Elmelhi, Yasir Muhammad and Jiang yu Xiang, "Structural Filters for Stabilizing a Flexible Launch Vehicle", in the International Conference on Electrical Engineering 2005, ICEE-C0315, china, Kuming, July 10-14, 2005.
- [3]- Ali Mohamed . s. Elmelhi, YASIR . Muhamed and JIANG YU Xiang, "Adaptive Tracking Filter for Stabilizing a Flexible Launch Vehicle", in Computer Aided Drafting, Design and Manufacturing "CADDM", vol. 14, No. 2, 2004, 71-76.
- [4]- ALI MOHAMED . S. ELMELHI and Jiang yu xiang, "Integrated Fuzzy Robust Controller for Flight Control Design", in Computer Aided Drafting, Design and Manufacturing "CADDM", vol. 15, No. 2. 2004.
- [5]- Muhammad Yasir and Ali Elmulhi, "Autopilot Stability Issues of a Coupled Motion of an Aerodynamic Vehicle", 4th International Bhurban Conference on Applied Science and Technology, Bhurban, Pakistan. June 13-18, 2005.
- [6]- Ali Mohamed Elmelhi, "Sliding Mode Fuzzy control Design for a Launch Vehicle', ICASAT, pp. 377 to 387. Tripoli - Libya, 2007.

- [7]- ALI MOHAMED ELMELHI, A TAHIR B. EL HASHANI, "Fuzzy Sliding Model Reference Adaptive Controller Design", Proceedings of the 5th WSEAS International Conference on MATHEMATICAL BIOLOGY and ECOLOGY (MABE'09), ISBN: 978-960-474-038-3, PP. 72-77.
- [8]- ALI ELMELHI, A Tahir B. EL Hashani "Robust H_{∞} Controller based on Fuzzy Observer Via LMI for Disturbance Rejection", IEEE, ICIME2009, April 3-5, 2009 , Kuala Lumpur, Malaysia, pp.534-538.
- [9]- Ali Mohamed Elmelhi, "Fuzzy Sliding Adaptive Control", ICCDA 2010, Vol.3. pp. V3-84 to V3-88, Qinhuangdao, Hebei, China, 2010.
- [10]- ALI MOHAMED ELMELHI, "fuzzy based genetic Algorithm for Flight Linear and Nonlinear Stabilization", LAICEEE conference,2010,Libya, No. 102552,pp.335-345, 2010.
- [11]- ALI MOHAMED ELMELHI, "robust dynamic inversion design for flight control system", LAICEEE, conference,2010, Libya, No.102553,pp.346-351, 2010.
- [12]- ALI MOHAMED ELMELHI, "STYRUCTION SINGULAR VALUE μ FOR ROBUST PERFORMANCE ANALYSIS", AL-AZHAR ENGINEERING ELEVENTH INTERNATIONAL CONFERENCE, pp. 391-399, December 21-23,2010.
- [13]- Ali Mohamed Elmelhi, "Flight Coupling Model Effect Based Fuzzy Control Logic", INTECH, 978-1-4673-2679-7/12/\$31.00 ©2012 IEEE, 18-20/September /2012, PP.426-432.
- [14]- Ali Mohamed Elmelhi,"The Influence of Moment of Inertia-Based on Flight Nonlinear Simulation", Journal of Electronic Systems, ISSN 2278-652X, India, Vol. 2, No. 3, PP. 93-107, Sep. 2012 .
- [15]-Ali Mohamed Elmelhi, "Burnout Parameters for Ballistic Missile Range Design", Journal of engineering, university of tripoli, 2012.
- [16]- Ali Mohamed Elmelhi, " Proportional Integral Derivative Controller Design Based Neural Network", ICECE 2013, March, benghazi –Libya
- [17]-ALI ELMELHI, A TAHIR EL HASHANI," Dynamic Inversion with Neural Network For Aircraft Attitude Control ", international conference on control engineering and information technology, Tunisia-Sousse, June, 2014.
- [18]- ALI ELMELHI, " Modified Adaptive Notch Filter Based Neural Network for Flexible Dynamic Control", International Journal of Computer and Electrical Engineering, Vol. 6, No. 2, April 2014.
- [19]- Daw M. Al-Zentani, Amer R. Razek, Ali Mohamed Elmelhi, "Design of a Flight Control System Based On HILS Test Platform", 5th International Conference on Control Engineering&Information Technology (CEIT-2017)
- [20]- Ahmed J. Abougarair, Mofthah M. Bakush , Mohamed A. Alrmah, Ali S. Elmulhi "Optimal Estimator Design Based On Optimal Controller", Libyan International Conference on Electrical Engineering and Technologies (LICEET2018), 7 – 3 March 2018, Tripoli - Libya

- [21]- Ali Mohamed Elmelhi, Daw Mohamed Alzentani “Kepler Orbit for Missile Free Flight Trajectory Simulation”, Libyan Arab International Conference on Electrical and Electronic Engineering and technology (LICEET2018) 7 – 3, March, TRIPOLI-LIBYA, 2018.
- [22]- Mustafa. S.Abudor, Ali. M. Elmelhi ,”Design of Vessel Heading Autopilot Based on Model Reference Adaptive Control”, Libyan Arab International Conference on Electrical and Electronic Engineering and technology (LICEET2018) 7 – 3 March, TRIPOLI-LIBYA, 2018.
- [23]-] Ahmed J. Abougarair, Ali S. Elmelhi, “Robust control and optimized parallel control double loop design for mobile robot”, International Journal of Robotics and Automation (IJRA), Vol.9, No.3, September, 2020, pp. 160~170
- [24] - Ahmed J. Abougarair, Ali M. Elmelhi, Hanadi M. Gnan, Nasar Aldian Ambark Shashoa,’ “Real Time Classification for Robotic Arm Control Based Electromyographic Signal”, 2022 IEEE 2nd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA) Sabratha, Libya 23-25 May 2022.
- [25]- Ali S. Elmulhi and Ahmed J. Abougarair,,” Sliding Mode Control for the Satellite with the Influence of Time Delay”, 2023 IEEE 3rd International Maghreb Meeting of the Conference on Sciences and techniques of Automatic Control and Computer Engineering (MI-STA), Benghazi, Libya 21-23 May 2023