

CURRICULUM VITA

Personal Information

Name : Omar Mohammad El-Ghezawi
Academic Position : Associate Prof.
Nationality : Jordanian
Date of Birth : 30th of July 1954
Marital Status : Married

Address

Electrical Engineering Department.
School of Engineering.
University of Jordan.
Amman 11942.
Jordan.

E-mail : ghezawi@ju.edu.jo and omarelghezawi@gmail.com
Tel : Office : (962 -6) 5355000 ext 22854
Home : (962 -6) 5156828
Fax :(962 -6) 5355588

Education

Ph.D in Adaptive Control, 1982, Sheffield University, England.
M.Sc in Control Engineering, 1979, Sheffield University, England.
B.Sc. in Electronic Engineering, 1978, University of Southampton, England.
General Certificate of Education, A level, 1975, Filton Technical College, Bristol, England.
Jordan Secondary Education Certificate, 1972, Irbid Secondary School, Irbid, Jordan.

Ph. D. THESIS

" Adaptive Control Using Variable Structure Systems" , Control Eng. Dept., Sheffield University, UK, Aug. 1982.

MSc. THESIS

"a Review of the Models of the Heart and a Digital Simulation for the Heart based on Coupled Oscillators". Control Eng. Dept., Sheffield University, UK, Sep. 1979.

Research Interests

Adaptive Control Systems, Variable Structure Systems, Eigenvalue-Eigenvector Assignments, and Linear Multivariable Systems.

Career Timeline

- The electrical engineering department, University of Jordan , Amman, Jordan, from 1983-till now.
- Visiting professor in the electrical engineering department , Taibah University, Almadeenah Almunawarah, Saudia Arabia, from 2012-2013.
- Visiting professor in the electronic and communication engineering department , Al-Hashimia University, Zarqa, Jordan , from 2005-2006.
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- Visiting professor in the electronic and communication engineering department , Amman National University, Amman, Jordan , from 2001-2002.
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- Visiting professor in the electrical engineering department, Jordan University for Science and Technology, Irbid, Jordan , from 1998-1999

Academic Experience.

This involves

- **Teaching Graduate and Undergraduate courses in :**
 - Linear Algebra.
 - Engineering Mathematics I, II, and III.
 - Signal Analysis.
 - Electrical Circuits+Lab.
 - Electromagnetics.
 - Electronic Devices and Circuits+Lab.
 - Electronic Amplifiers+Lab.
 - Medical Electronics.
 - Measurements and Instrumentation+Lab.
 - Logic Circuits+Lab.
 - Classical Control+Lab.
 - Nonlinear Control.
 - Modern Control Theory.
 - Digital Control Systems.
 - Advanced Control Systems.
 - Robust and Intelligent Control.
 - Linear Systems.
 - Numerical Methods+Lab.
 - Optimization Techniques.
 - Random Theory.
 - MATLAB, Simulink , and Every Circuit.
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- Establishing labs and experiments in control systems, and in electronic circuits.
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- Supervising laboratory experiments in Electrical Circuits, Electronic Circuits, Logic Circuits, Communication Systems, Control Systems and Transducers.
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- Supervising many graduation projects.
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- Participating in many inter-university committees including organisation of the second Jordan International Electrical and Electronic Engineering Conferences in 1983 and 1985.

- Refereeing research papers for conferences and journals.
- Judging ph.D. theses for accreditation by the ministry of higher education and scientific research.
- Translation of scientific vocabularies for the Specifications and Measurement Bureau.
- Reviewing technical curricula written in Arabic for high engineering training institutions.

ORGANIZATION AFFILIATIONS

- Member, IEEE, New York, USA (2019-).
- Ex Member, and CEng in The Institution of Electrical Engineers (IEE), United Kingdom.
- Member, Jordan Engineers Associations, Amman, Jordan (1978 -).
- Member of the International Association of Engineers (IAENG).

MANAGEMENT and COUNCIL MEMBERSHIPS

Head of the EE department , Faculty of Eng., Jordan University, Amman, Jordan 21/11/2008-9/12/2008.

Member of Faculty of Engineering & Technology Council, University of Jordan (9/86 - 9/87).

Secretary of the council of the EE department.

Member of the Scientific committee in the EE department.

Member of the Research committee in the EE department.

Member of the university library committee in the EE department.

Coordinator of the university library committee in the school of engineering , the university of Jordan .

Member of different committees for establishing BSc. and MSc. Plans and curricula.

A member of the electrical engineering department committees preparing for the ABET enrolment.

Coordinator of the engineering faculty Tender committee for the control systems labs.

Member of committees for revising final exams corrections processes (following students complaining requests).

TECHNICAL ACTIVITIES:

- Publicity Committee, and Member of the Technical Committee, JIEEEEC'83 and JIEEEEC'85.
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- Technical Reviewer for, JIEEEEC'85 & JIEEEEC'83, DIRASAT, MUTA'H, Jordan Fifth International Conference on Electrical and Electronic Engineering, Amman, October 2003.

LIST OF PUBLICATIONS.

Zinober, A.S.I, El-Ghezawi, O.M.E, and Billings, S.A, 1981, "Variable Structure Control of Adaptive Model following Systems", IEE Conference on Control and its Applications, Warwick, England.

Zinober, A.S.I, El-Ghezawi, O.M.E, and Billings, S.A, 1982, "Multivariable Variable-Structure Adaptive Model following Control Systems", IEE Proc., vol 129, pp6-12

El-Ghezawi, O.M.E, Zinober, A.S.I, Owens, D.H, and Billings, S.A, ,1982, "Computation of the Zeros and Zero-directions of linear Multivariable Systems, Int. J. Control, vol 36, No. 5, pp 833-843.

El-Ghezawi, O.M.E, and Billings, S.A, Zinober, A.S.I,1983, "Variable Structure Systems and System Zeros", IEE Proc., vol 130, part D, No. 1, pp 1-5.

El-Ghezawi, O.M.E, Zinober, A.S.I, and Billings, S.A, 1983, "Analysis and Design of Variable Structure Systems Using a Geometric Approach", Int. J. Control, vol 38, NO. 3, pp 657-671.

El-Ghezawi, O.M.E, 1985, "Output Model Following Control Systems", Proceedings of the Jordan International Electrical and electronic Engineering Conference, April, pp 475-483.

El-Ghezawi, O.M.E., 1990, "A Two-Stage Method for Eigenvalue Eigenvector Assignment", Dirasat, Series B (Pure and Applied Sciences), vol 17, No. 1, pp 65-77.

Salamh D. Y., Abdelazeez M. K., El-Gezawi O. B., 1993, "Controlling the Nullwidth in Adaptive Arrays by Nonuniform Spacing", Antennas and Propagation Society International Symposium. vol 3. pp 1872-1875.

Al-Ka'bi A. H., El-Gezawi O. B. Abdelazeez M. K. , 1993, "The Effect of Pointing Errors on Adaptive Antennas Performance", Antennas and Propagation Society International Symposium. vol 3. pp 1880-1883

El-Ghezawi, O.M.E., 1994, "Eigenvalue-Eigenvector Assignment of Uncontrollable Systems using the Two-Stage Method", Mu'tah Journal for Research and Studies, vol 9, No. 3, pp 193-209.

El-Ghezawi, O.M.E., 1997, "Insight into the Recursive Eigenstructure Method with Modifications", Dirasat, vol 24, No. 3.

El-Ghezawi, O.M.E., 1997, "Recursive and Modified Recursive Eigenstructure Assignment of Uncontrollable Systems", Dirasat, vol 24, No. 3.

El-Ghezawi, O.M.E., 1999. "Adaptive Fuzzy Logic Controller Using the Theory of Variable Structure Systems". Research Report .

El-Ghezawi, O.M.E., 2002. "Investigation in Eigenstructure Assignment". Research Report.

El-Ghezawi, O.M.E., 2003, "Explicit Formulae for Eigenstructure Assignment", Jordan Fifth International Conference on Electrical and Electronic Engineering, Amman, October 2003, pp

El-Ghezawi, O.M.E., 2006. "Investigation into Intelligent Control". Research Report.

El-Ghezawi, O.M.E., 2010, “Unification of Three Methods for Eigenvalue-Eigenvector Assignment “. DIRASAT, vol 37, No. 2. Oct. 2010. pp 206-213.

El-Ghezawi, O.M.E., 2010, “Reduced Order Methods for Designing Sliding Modes Hyperplanes “. DIRASAT, vol 37, No. 2. Oct. 2010. pp 233-241.

El-Ghezawi, O.M.E., 2013. “Visual Control Systems”. Research Report.

El-Ghezawi, O.M. 2015 , “Simplified Methods for Eigenvalue Assignment”. In Special Issue on Eigenvalues and Eigenvectors , Advances in Pure Mathematics. No.7 , Vol.5 , pp 383-389.

El-Ghezawi, O.M. 2015 , “Explicit Determination of State Feedback Matrices”. Special Issue on Eigenvalues and Eigenvectors , Advances in Pure Mathematics. No.7 , Vol.5 , pp 403-412.

El-Ghezawi, O.M. 2019, “Conjectural Approach to Pole Placement”. Jordan Journal of Electrical Engineering (JEE), Vol.5, No.3, pp.191-201

El-Ghezawi, O.M. 2021. “The Ackermann’s method: Revisited, Extended, and Generalized to Uncontrollable Systems”. IEEE Access, Sep. 2021, polynomial 129552-129559, DOI: 10.1109/ACCESS.2021.3111928