

CURRICULUM VITAE

Prof. ALI SALEM AL-DMOUR

PERSONAL DATA

❖ PERSONAL DETAILS

Date of Birth: 1 March 1962

Nationality: Jordanian

Marital Status: Married

❖ PERMANENT ADDRESS

Work Address: Electrical Engineering Department, College of Engineering,

Mutah University, Mutah, P.O.

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ACADEMIC QUALIFICATIONS

PhD (Electrical Engineering)

University of Bradford, United Kingdom

1996

BSc Electrical Engineering

Mosul University/ Iraq; B.Sc. in Electrical Engineering

1984

PROFESSIONAL EXPERIENCE

Professor

March

2017-Present

Associate Professor

Sept. 2001 –

Mar. 2017

Assistant Professor

Sept. 1996-

Sep. 2001

Courses Taught

- Electric Circuit I and II
- Electrical Engineering I and II
- Electric Machine I and II
- Electronics I
- Measurement and Instrumentation
- Computer Skills (C++)
- Electric Circuit I and II
- Electrical Engineering I and II
- Electric Machine I and II
- Electronics I
- Measurement and Instrumentation
- Microprocessors/Electrical Engineering Department
- Microprocessors systems/Computer Engineering Department

- Computer architecture and software systems (2+2 joint program with some UK Universities)/Computer Engineering Department)
- Applications of Microprocessors in Power and Control Systems
- Power systems I & II
- Automatic Control (Analogue)
- Digital Control Systems.
- Programmable Logic Controllers (PLCs).
- Embedded Systems Based on Microcontrollers (PIC).
- Machines Controllers.
- Control of Industrials Processes.
- Power Electronics.
- Energy management (MSc program).
- Environments and Sustainable Development Energy (MSc program)
- Component of smart grid systems (MSc program)
- Computational analysis and applications in power system (MSc program).
- Energy Storage Technologies (MSc program).
- Research Methodology (MSc program).

- Teaching
- Member of College Program Assessment and Accreditation committee for ABET.
- Student Exam preparation and evaluation.
- Contributing in Research work.
- Member of University Academic Committees.
- M.Sc. program Committee Member.
- Supervisor more than 20 MSc students, and (internal/external) examiner of M.Sc. Thesis in Electrical Engineering in Jordan, JUST and Mutah Universities.
- ABET accreditation committee member, Electrical Engineering Department, Mutah University.

Academic Duties

COMPUTER & PROGRAMMING SKILLS

- FORTRAN, C, C++ and Assembly.
- MATLAB, Electronic Work Bench.
- Arduino, Microcontrollers, Microprocessors, DSP (C3x) programming.
- Microsoft Visual Studio, Word, Excel, Visio and Power Point.
- Computer Languages: Fortran, Basic, C, C++, MATLAB, Visual C++, Parallel C and Occam for Transputers.
- Software: Developing a variety of programs for controlling the motion of flexible structures.
- Hardware: Computer interfacing with different applications in mechanical and electrical engineering.
- Holder of International Computer Driving License (ICDL HOLDER)
- Quality Assurance (QA) of the ICDL program in Jordan.
- QA in charge of all ICDL centers in south Jordan (Karak, Tafilah, Ma'an, and Aqaba).

RESEARCH AFFILIATIONS

- Reviewer for *Journal of Sound and Vibration*.
- Reviewer for *Jordan Journal of Electrical engineering, Mutah Journal for Research and Studies: Natural and applied Sciences Series*.
- *Director of the third conference of Electrical Engineering/ Mutah University.*
- *Director of the International conference in Engineering" Mutah 2003"/ Mutah University.*
- *A member and participating in many conferences and workshops.*
- *A member and participating in the project namely " De-carbonizing Jordanian Energy Systems Utilizing Smart Solutions based on Energy Storage" which is Funded by: Royal Academy of Engineering/ Transforming Systems through Partnership 20/21 Project No.: TSP2021\100334, 2021.*
- *A member and participating in the Erasmus+ project vocational training Diploma on electrical and Hybrid cars(Eco-Cars), 2022.*
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COUNSEL COMMITTEE MEMBERSHIPS AND OTHER ACADEMIC RESPONSIBILITIES

- *Faculty engineering counsel from 1997-200, 2001-2003 and 2015-up to now.*
- *Editorial Board of Mutah Journal for research and Studies: Natural and Applied science*
- *Computer B.A. course plan committee*
- *Several other committees concerning research, laboratories,*

employee's faculty members, conferences, tenders, etc.

- *In Addition to membership of 100 committees in and outside Mutah University.*
- *Member of the board of trustees, Andalus College 2004- 2010.*
- *Member of the central tender's committee in Mutah University and Tafila Technical University.*
- *M.Sc. program Committee Member.*
- *Supervisor, and co-supervisor of M.Sc. student in Electrical Engineering in JUST and Mutah University.*
- *Internal/external examiner of M.Sc. Thesis in Electrical Engineering.*
- *ABET accreditation committee member, Electrical Engineering Department, Mutah University.*

AREAS OF INTEREST AND ACTIVITIES

- Member of IEEE and JEA.
- Real-time active control applications utilizing parallel processing techniques, with particular emphasis on vibration suppression of flexible structures, power systems, and computer systems.
- Intelligent controllers design based on neural networks, fuzzy logic, simulated annealing, and genetic algorithm.
- Microprocessors and microcomputers and their applications in mechanical and electrical engineering.
- Renewable energy, smart grid applications and distributed energy resources.

LANGUAGES

- Arabic (Native)
- English (Excellent)

PREVIOUS POSITIONS HELD

- Electrical Engineer in Jordan Armed Forces from 1984 to 1986
- Research and Teaching Assistant in the Electrical Engineering Department/Mutah University from 1987 to 1993.
- Assistant professor in Electrical Engineering Department/Mutah University from 7/9/1996 to 7/9/2001
- Head of Electrical Engineering Department/Mutah University from 4 July 1998 to 31 Aug. 1999.
- Head of Electrical Engineering Department/ Mutah University from 1 Sept. 2000 to 31 Aug. 2001.
- Professor in Electrical Engineering from March. 2017- to present
- Head of Computer Engineering Department/ Mutah University from 1 Sept. 2002 to 31 Aug.

- 2003.
- Vice Dean of Engineering College/ Mutah University from 1 Sept. 2002 to 31 Aug. 2003.
 - Director of South Center for Training and Consultation/Mutah University from 1 Sept. 2003 to 12 Aug. 2004.
 - Member in the IT and Computer Engineering College Council of Alhussien Bin Talal University in Jordan from 1 Sept. 2003 to 1 Sept. 2004.
 - **Dean of IT and Computer Engineering College of Alhussien Bin Talal University in Jordan from 17 Sept. 2004 to 17 Aug. 2005.**
 - **Director of engineering office and Mutah university president consultant from 1 Dec. 2007 to September 2009.**
 - **Dean of Student affairs at Mutah University from 1 Sept. 2012 up 1 Sep. 2013.**
 - **Dean of graduate's studies college at Mutah University from 2 Sept. 2013 up 2 Sep. 2015.**
 - **Project Manager of Establishing/Installing a 5010.92 KWp Photovoltaic System for Mutah University in Karak.**
 - **Project Manager of Establishing of 10 MW ac Photovoltaic system for Mutah University in Karak (Investment Project).**
 - **Head of the main central tender's committee (up to million dollars) of Mutah University.**
 - **Vice president of Mutah University for administrative affairs from Sep. 2010 to now.**
 - **The Head of the Doctor of Dental Surgery (DDS) College Temporary Council at Mutah University from 1 March, 2022 to now.**

LIST OF PUBLICATIONS

- [1] Al-Dmour A. S., 1999, " Active Vibration Suppression in Flexible Cantilever Beam Using Fuzzy Logic Controllers ", Mutah Journal for Research and Studies: Natural and applied Sciences Series, Vol. 14, No. 1, pp. 37-58.
- [2] Al-Dmour A. S., and Mohammad K. S.,2002, "Active Controlling of Flexible Structures using Principal Component Analysis in Time Domain ", Journal of Sound and Vibration, UK, 253(3), pp. 545-569.
- [3] Mohammad K. S., and Al-Dmour A. S.,2002, "Active Vibration Suppression of Lumped Modeled Flexible Structures ", J. of Science and Engineering, University of Damascus, Vol. 18, No. 1, pp.27-44.

- [4] Mohammad K. S., and Al-Dmour A. S., 2002, "Vibration Control of Unknown Flexible Beam Structures", Journal of Vibration and Control, Vol. 8, pp. 69-86, USA.
- [5] Al-Dmour A. S., "Simulated Annealing Algorithm for Controlling Structural Vibrations", Accepted for publication in Computer Assisted Mechanics and Engineering Sciences (CAMES) Journal, Polish Academy of Sciences.
- [6] Virk G. S., Al-Dmour A. S., 1999, "Real-time vibration suppression in a flexible cantilever rig", Elsevier Science, Microprocessors and Microsystems Vol. 23, pp. 365-384.
- [7] Al-Dmour A. S., 2000, "Improved fuzzy logic controller using genetic algorithm and its application to vibration suppression of flexible structures", Natural and Engineering Sciences, The University of Jordan, Vol. 27, pp. 110-124.
- [8] Al-Ajlouni M., and Al-Dmour A. S., 1999, "Design, manufacturing, and testing of non-contacting electromagnetic exciter", Proceedings of the 3rd Jordanian Conference on Electrical Engineering, Mu'tah University, pp. 227-231.
- [9] Virk, G. S., Al-Dmour, A. S., 1994, "System simulation using neural networks", Departmental Research Report No. 537, University of Bradford.
- [10] Zoubi A.Y., and Al-Dmour A., 1993, "Automatic measurement of resonator characteristic for determination of the electronic and magnetic properties of materials", IOP Publishing Ltd., Vol. 4, pp. 12-15.
- [11] Al-Dmour A. S., 2002, "Active Vibration Control of Flexible Beam Structures Using Simulated Annealing", Natural and Engineering Sciences, The University of Jordan, Vol. 29, No. 2, pp. 135-149.
- [12] Al-Ajlouni M., and Al-Dmour A. S., 2004, "Using non-contacting electromagnetic exciter for Modal Testing", Emirates Journal for Engineering Research (EJER), Vol. 7, No. 1.
- [13] Al-Dmour A. S., 2016, "Simulation and Control of DC-DC Converters Using Particle Swarm Optimization Technique", International Journal of Advanced Scientific and Technical Research, Vol. 5, pp.301-323.
- [14] Al-Dmour A. S., 2016, "Excitation Control of a Synchronous Generator Using Neural

- Networks and Simulated Annealing Controllers", Jordan Journal of Electrical Engineering Vol. 2. No. 3, pp. 253-269.
- [15] Al-Dmour A. S., 2016, "Active vibration Control of Cantilever Beam System Using Particle Swarm Optimization", Jordan Journal of Electrical engineering, Volume 2, No. 4, pp. 322-338.
- [16] Al-Dmour A. S., 2016, "Applications of Modern Optimization Methods for Controlling Parallel Connected DC-DC Buck Converters", International Journal of Computer Science Issues, Volume 13, Issue 6, pp. 151-159.
- [17] Al-Dmour A. S., 2019, "Improved Cuckoo Optimization Algorithm for Excitation Control of Synchronous Generators", Jordan Journal of Electrical Engineering Vol. 2. No. 2, pp. 109-124.
- [18] AL Momani Mohammad, Al-Dmour A. S., Algharaibeh Seba," The Application of Artificial Intelligence Techniques for Modeling and Simulation of Photovoltaic Arrays Systems", accepted for publication in Jordan Journal of Electrical engineering, 2020.
- [19] Batool B. Al-Kraisat, Ali S. Al-Dmour, "Optimal PMU placement Considering Fault Tolerant Enhancement, International Journal of computers, PP 20-32, 2021.
- [20] Batool B. Al-Kraisat, Ali S. Al-Dmour, Khaled S. Al-Maitah, "Minimizing the Total Cost of WAMS Using Artificial Electric Field Algorithm, International Journal of Energy, PP 51-62, Vol. 15, 2021.
- [21] Batool B. Al-Kraisat, Ali S. Al-Dmour, Khaled S. Al-Maitah , "Artificial Electric Field Algorithm for Optimum PMU Placement", IEEE Green Energy and Systems Conference (IGESC), 2021.

REFERENCES

1. Prof. Thafer Yusif Assaraira , Former President of Mutah
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3. Prof. Rida A .Shibli: The former President of Mutah University Jordan
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