

Curriculum Vita

Qazem M. Jaber

Full Professor

Department of Mechatronics Engineering

Faculty of Engineering Technology (FET)

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Education:

- 1975-1982, M.Sc. (with honor) in Electromechanical Engineering, Electrical Drive and Automation, Moscow Power Institute, Moscow, USSR.
- 1982-1986, Ph.D. in Electromechanical Engineering, Moscow Power Institute, Moscow, USSR.

Areas of Interest:

Teaching and Committees

Dr. Jaber is an active staff-member at FET as well as the Al-Balqa' Applied University, whereas he participated in different academic and administrative committees. The followings are some courses that he has taught during his academic carrier:

- Power electronics and drives
- Digital electronics and microprocessor
- Industrial automation
- Element design of electromechanical systems
- Energy systems and synchronization

Due to his long experience, he was selected as a permanent member in specialized committees for development of the national curricula of engineering professions at the Ministries of Education and Higher Education in Jordan. Also Dr. Jaber is a member in the Research and Promotion Committee at FET of Al-Balqa' Applied University.

Research

- Energy analysis
- Speed control of induction motors
- Inverter applications in industry
- Energy saving and renewable energy

Work Experience:

Academic

- Assistant Professor, Department of Electrical Engineering, Amman Collage, Ministry of Higher Education, Amman, Jordan (1992-1997).
- Assistant Professor, Department of Mechatronics Engineering, Faculty of Engineering Technology, Al-Balqa' Applied University, Amman, Jordan (1997-2002).
- Head of Department of Mechatronics Engineering, Faculty of Engineering Technology, Al-Balqa' Applied University, Amman, Jordan (1998-2000).
- Associate Professor, Department of Mechatronics Engineering, Faculty of Engineering Technology, Al-Balqa' Applied University, Amman, Jordan (2002-present).
- Associate Professor, Department of Mechatronics Engineering, Faculty of Engineering, Hashemite University, Zarqa, Jordan (2003-2004).
- Director General, Productive Company for Manufacturing, Development and Marketing, Owned by Al-Balqa' Applied University, Amman, Jordan (2005-2009).
- Supervising MSc students at Department of Mechatronics Engineering, Faculty of Engineering Technology, Al-Balqa' Applied University, Amman, Jordan.
- External Examiner, Postgraduate Students in Electrical Engineering in Jordanian Universities.
- Reviewer of Specialized Refereed Scientific Journals in Fields of Electrical Engineering.

Non-Academic

- Technical Manager, Electro-Mechanical Engineering Group Company, Amman, Jordan (1986-1989).
- Instructor and Team Leader, International Labor Organization and Vocational Training Corporation, Amman, Jordan (1989-1990).
- Design Engineer, Arab Engineering Office, Amman, Jordan (1991-1992).
- Part-Time Lecturer in Electrical and Control Engineering, Community Collage, Amman, Jordan (1988-1992).
- Part-Time Lecturer in Digital and Microprocessors, Energy Systems and Control, Jordan Engineers Association, Amman, Jordan (1993-present).

Publications:

1. **Q.M. Jaber**, Dynamic behavior of linear induction motor, Bulletin of the Faculty of Engineering, Vol. 23, Part 2, July, 1995, Assuit University, Egypt.
2. **Q.M. Jaber**, Formula for calculating static characteristics of low speed cylindrical linear induction motor (L.S.C.L.I.M), Journal of Takreet University, 1996, Iraq.
3. **Q.M. Jaber**, Modeling and dynamic performance of sinusoidal PWM fed induction motor with skin effect, Dirasat, Deanship of Postgraduate Studies & Scientific Research, University of Jordan, Vol. 25, No. 1, 1998.
4. **Q.M. Jaber**, Analysis modeling and application for static performance of low speed cylindrical linear induction motor with three phase voltages controller, Faculty of Engineering, Technology University, 1998, Baghdad, Iraq.
5. **Q.M. Jaber**, Dynamic performance of linear induction motors with three-phase voltage controller, Faculty of Engineering, 1999, Baghdad University, Baghdad, Iraq.
6. **Q.M. Jaber**, Control signals generation, circuits, speed control and performance of inverter induction motor drive system based on microprocessor-Z80, Emirates Journal for Engineering Research (EJER), 2001, Al-Ein University, United Arab Emirates.
- 7- **Q.M. Jaber**, Modeling and dynamic performance of sinusoidal PWM (SPWM) with bipolar voltage switching fed - induction motor, Journal of Math & Computer Science, Vol. 11, No. 1, (2000), India.
- 8- **Q.A. Naman, Q.M. Jaber**, Effects of leaking electricity on national grids, European Journal of Scientific Research, AMS Publishing Inc., Lulu press, Morrisville, USA, Vol.4, No.3, 2005.
- 9- **Q.M. Jaber, Q.A.H. Naman**, High speed stability of induction motors at low speeds using V/F control method, Journal of Engineering Science, Faculty of Engineering University of Assiut, Egypt, Vol.33, NO.5, 2005.
- 10- **Q.M. Jaber, J.O. Jaber, S.A. Sawalha**, Evaluation of conventional and renewable energy sources for space heating in the household sector, Renewable and Sustainable Energy Reviews, Elsevier Ltd., (accepted and in press 2006).
- 11- **Q.M. Jaber, Q.A.H. Naman, M. Shamaseen**, Effects of low frequencies on three phase induction motor performance operating in close proximity to

rated speed, American Journal of Applied Science, Science Publication, USA, Vol.4, No.5, 2007.

- 12- R. Rashad, D.E. Skopin, **Q.M. Jaber**, Developing Art-1 neural network interface model for processing and recognition color images, Journal of Computer Science, Science Publication, USA, (accepted and in press 2007).
- 13- **Q.M. Jaber**, J.O. Jaber, M.A. Khawaldah, Assessment of power augmentation from gas turbine power plants using different inlet air cooling systems, Jordan Journal of Mechanical and Industrial Engineering (JIMIE), Deanship of Postgraduate Studies & Scientific Research, Hashemite University, (accepted and in press 2007).
- 14- **Q.M. Jaber**, Electronic circuit with triac switch for a capacitor-start single phase induction motor, Deanship of Postgraduate Studies & Scientific Research, Al-Balqa' Journal, Al-Ahliyya Amman University, (accepted and in press 2007).
- 15- **Q.M. Jaber**, Dynamic model of a single phase induction motor using electronic triac-starter, Dirasat, Deanship of Postgraduate Studies & Scientific Research, University of Jordan, (accepted and in press 2007).

Conference Proceedings and Presentations

- 1- I. Abbass, **Q.M. Jaber**, Transient state performance of induction motor with skin effect, International Engineering Conference of Electrical and Electronics, IEEE and Jordan Engineers Association, 1995, Amman, Jordan.
- 2- **Q.M. Jaber**, Modeling and dynamic performance of sinusoidal PWM feed induction motor, Jordan International Electrical and Electronics Engineering Conference (JIEEE) 1998, Amman, Jordan.
- 3- **Q.M. Jaber**, Q.A.H. Naman, Speed control of induction motor using PWM technique and series reactor, 2nd Middle East Symposium on Simulation and Modeling (MESM' 2000), Philadelphia University, 2000, Amman, Jordan.
- 4- **Q.M. Jaber**, J.O. Jaber, S. Khrabshah, Prospects of clean energy and green electricity production in Jordan, Proceeding of World Renewable Energy Congress-IX, 19-25 August 2006, Florence, Italy.
- 5- J.O. Jaber, **Q.M. Jaber**, M.S. Mohsen, Evaluation of conventional and renewable energy sources for domestic space heating using fuzzy logic, Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, Greece, 14-18 July 2006.

Organizations and Affiliations:

- Permanent Member in Organizing Committee of Jordanian International Electrical & Electronics Engineering Conference, organized bi-annually in close cooperation between Jordan Engineers Association and IEEE.
 - Chair of the Electrical Scientific Committee, Electrical Division, Jordan Engineers Association.
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