AMIR MOHAMMED ABU_AL_AISH

Personal information

Date of birth: 5/7/1979.

Place of birth**:** Shajara / Jordan.

Permanent address

Communications Engineering Department

Faculty of Engineering

Al-hussien bin Talal University

P.O Box 104, Ma'an, Jordan

E_mail : amirabulaish@gmail.com

EDUCATION

- PhD in Control and Automation systems, Thesis titles "DEVELOPMENT OF SOME APPLICATIONS OF CAPACITIVE AND FIBER OPTIC SENSORS IN THE FIELD OF INSTRUMENTATION"

- Master Degree of Science (Electronic System Design Engineering) Universiti Sains Malaysia,Pulau Pinang- Malaysia,2006.

- B.Sc. degree in Electronic Engineering from Yarmouk University, Jan2003

Training During B.Sc University Study

- 1/3/2002 to 30/5/2002: United Company for electrical circuit design and manufacturing PCB

- 1/6/2002 to 30/8/2002: Jordan Telecommunication Company (JTC).

EXPERIENCE

- **Jordan Telecommunication Company (JTC).Since May 2003 Until May 2005 including of:**
    - Transmission department (SDH,PDH).
    - Switching department.
    - Digital services department.
- **Research Officer at Electrical and Electronic school,USM**
- **Assistant Professor at Al Hussein bin Talal University since 2013 until Present.**
- **Chair, Department of Communications Engineering**, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan since **September 2015 until Present.**
- **Chair, Department of Electrical Engineering**, Faculty of Engineering, Al-Hussein Bin Talal University, Ma'an, Jordan since **September 2015 until Present.**

Lecturer for the subject of:

- Microprocessor Systems Design
- Control system
- Electrical Circuits
- Electronic Devices
- Digital Systems Design
- Measurement and instrumentation

Scientific and research interests:

- Measurement and instrumentation
- Sensors Technology: Optical, Fiber optics, Capacitive, Wireless sensors.
- Environments Monitoring: Landslides, Floods, Earthquakes, Pollution.
- Embedded Microprocessor and Computer

Computer Skills:

- LabView, Matalab, OrCAD.
- Net-Works connections.
- Programming Language: C++, Pascal, Assembly, PicBasic Pro
- Microsoft Office, EndNot.
- Other programs like: Origin, Visio, Multisim and others.

Awards

- Fellowship for Ph.D research, University Science of Malaysia, 2008.
- Research grant, developing landslide monitoring system, MOSTI, 2007.
- Research grant, developing of capacitive mass sensor, USM, 2006.

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Courses

- Siemens Certified in Programmable logic controller (PLC).
  S7 system handling (ST_7SYH), 2004.

Languages

Arabic : Mother tongue.
English : Very good.
Bahasa Malay: Basic.

Published Researches

JOURNALS

- WA Salah, D Ishak, BA Zneid, **A Abu_Al_Aish**, MS Jadin, AA Sneineh. (2015) Implementation of PWM control strategy for torque ripples reduction in brushless DC motors. Journal of Electrical Engineering, 1-12.

- WA Salah, D Ishak, **A Abu_Al_Aish**, BA Zneid, AA Sneineh. (2014) Commutation time estimator for PM BLDC motor torque signature enhancement. Journal of engineering Science and Technology (JESTEC) 9 (6), 670-799.

- Rehman, M., Abdul Mujeebu, M., Cheng, Y. & **Abu-al-aish, A**. (2011) A Microcontroller Based Measurement System for Human Response to Visual and Hearing Stimulations. Journal of Experimental Techniques.

- Rehman, M., **Abu-al-aish, A.,** & Abu Hassan, A. H. (2011) Remote measurement of speed using fiber optic technique. Journal of Optoelectronics and Advanced Materials, 13(19), pp. 1118-1121.

- **Abu-al-aish, A.**, Rehman, M., Abdullah, M. Z. & Abu Hassan, A. H. (2010) Microcontroller Based Capacitive Mass Measuring System. Measurement Science Review, 10,pp.15-18.

- **Abu-al-aish, A.**, Rehman, M. & Arshad, M. R. (2010) A remote fiber optic liquid level measuring system. Optoelectronics and Advanced Materials-Rapid Communications, 4,pp. 799-802.

- **Abu-al-aish, A.**& Rehman, M. (2009) Development of a capacitive mass measuring system. *Sensors and Actuators:A-Physical,* 151**,** pp.113-117.

- **Abu-al-aish, A.**& Rehman, M. (2009) Development of a low cost Optical Tilt sensor. MASAUM Journal of Basic and Applied Sciences, 1, pp.9-13.

- **Abu-al-aish, A.**, Rehman, M., Abu Hassan, A. H & Arshad, M. R. (2009) Development of an intelligent capacitive mass sensor based on Co-axial cylindrical capacitor. Journal of Sensor & Transducer, 105(6), pp.1_9.
- **Abu-al-aish, A.**, Rehman, M., Arshad, M. R., Abu Hassan, A. H. & Ahmad, F. (2009) Remote measurement of tilt using fiber optic sensor. Journal of Optoelectronics and Advanced Materials, 11, pp.1686-1691.

- Rehman, M., Loon, C. E., **Abu-al-aish, A.** & Arshad, M. R. (2011) Remote measurement of liquid flow using turbine and fiber optic techniques. Journal of Mechanical Systems and Signal Processing, 25,pp. 1661-1666.

Conferences

- **Amir Abu_Al_Aish** and Mahfoozur Rehman, "Development of a low cost Optical Tilt sensor" ICARA 2009 - Proceedings of the 4th International Conference on Autonomous Robots and Agents, art. no. 4803958, pp. 290-293.
- Mahfoozur Rehman and **Amir Abu_Al_Aish** "SIMULATION, ANALYSIS AND DESIGN OF AN ACTIVE BRIDGE FOR SENSOR CAPACITANCE MEASUREMENT, USING MATLAB" International Conference on Modeling and Simulation,Coimbatore, 27-29 August 2007,pp959_962
- Mahfoozur Rehman, **Amir Abu_Al_Aish** and Lee Bee Koon "A SIMPLE CAPACITIVE SECURITY CARD SYSTEM" IEEE Conference Proceeding,5th International Symposium on Mechatronics and its Application, Amman, 27_29 May, 2008
- Mahfoozur Rehman, Y.S.Cheng and **Amir Abu_Al_Aish** "Design and Development of a Human Response System" 12th International Conference on Mechatronics Technology (ICMT 2008).
- Mahfoozur Rehman, M.Rizal Arshad and **Amir Abu_Al_Aish** Development of a Low cost Fiber optic Tsunami Monitoring System"2nd International Conference on Underwater System Technology: Theory and Applications 2008 (USYS'08) 4 - 5 November 2008, Bali Indonesia.