CURRICULUM VITAE

(1/05)



Hadeel Kassim ALJOBOURI Baghdad, Iraq [Tel]: (+964) 77 1000 24 84 [E-mail]: hadeel_bme77@yahoo.com

EDUCATION

- Ph.D.: Electrical and Electronics Engineering-Biomedical Program, 2017
 Dissertation Title: "Clustering Functional MRI Data using a Robust Unsupervised Learning Algorithm"
 Dissertation Advisor: Assoc. Prof. Dr. İlyas ÇANKAYA
 Ankara Yıldırım Beyazıt University, Turkey
- M.S.: Medical Engineering, 2004 AL-Nahrain University, Baghdad, Iraq
- B.S.: Biomedical Engineering, 2000 University of Baghdad, Baghdad, Iraq

EMPLOYMENT

- (2012-17) *Ph.D. Fellow*, Department of Electrical and Electronics Engineering, ANKARA YILDIRIM BEYAZIT UNIVERSITY GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES, Turkey.
- (2004-12) *Instructor*, Department of Biomedical Engineering, AL-NAHRAIN UNIVERSITY COLLEGE OF ENGINEERING, Baghdad, Iraq.
- (2001-04) *M.Sc. student*, Department of Medical Engineering, AL-NAHRAIN UNIVERSITY COLLEGE OF ENGINEERING, Baghdad, Iraq.
- (2000-01) *Biomedical Engineer*, AL-KADHYMIA EDUCATIONAL HOSPITAL, Baghdad, Iraq.

LANGUAGES

Arabic (mother language), English, Turkish.

HONORS & AWARDS

Turkish Government Scholarships for International Students, 2012

TEACHING EXPERIENCE

- Mathematics I. (MDER110: Undergraduate Course)
- Mathematics II. (MDER120: Undergraduate Course)
- Physics. (PHYS120: Undergraduate Course)
- Electrical Circuits I. (MDER111: Undergraduate Course)
- Electrical Circuits II. (MDER121: Undergraduate Course)
- Electronics I. (MDER212: Undergraduate Course)
- Electronics II. (MDER221: Undergraduate Course)
- Electromagnetic fields. (MDER222: Undergraduate Course)
- Medical Equipment. (MDER315: Undergraduate Course)
- Control I. (MDER512: Undergraduate Course)
- Control II. (MDER522: Undergraduate Course)
- Project. (CREQ510: Undergraduate Course)
- Project. (CREQ520: Undergraduate Course)

RESEARCH

(2015-)	Neuroscience interactive mining of fMRI data using model-free and model-based approaches.
(2014-2017)	Statistical Parametric Mapping (SPM) & unsupervised clustering algorithms.
(2014-2015)	Biosignal processing and medical imaging software package design based on MATLAB GUI.
(2011-2014)	Biomedical signal processing techniques.
(2016)	Design and implementation of high voltage generator for medical applications.
(2016)	Design a graphical user interface of linear algebra system package using MATLAB.
(2013)	A survey on optical fiber sensors for telemedicine applications.
(2011)	Photo Dynamic Therapy (PDT) with biological tissues using Nd:Glass laser.
(2010-2011)	Design an exact electrical equivalent circuit for invasive blood pressure measurement using a catheter.
(2009-2011)	Design and implementation of wireless ECG system for telecare.
(2009-2010)	Radioactive medicine using Nuclear Medicine Imaging (NMI).

- (2008-2009) Pulse oximeter design for oxygen saturation and heart monitoring rate.
- (2008-2009) Studying the design of the biosignal interfacing system.

(2003-2007) Computer-based ECG signal analysis and monitoring system.

(1999-2000) The interaction of Nd-Glass laser with biological tissues.

SERVICE AND MEMBERSHIPS

Memberships:

• Iraqi Engineering Union

University Service:

- Postgraduate Student Committee of the Medical Engineering Department, head (2010-12)
- Graduate Student Committee of the Biomedical Engineering Department, head (2017-)

Member of Technical Program Committee (TPC):

• Al-Sadiq International Conference on Multidisciplinary in IT and Communication Science and Applications (AIC-MITC 2016), IEEE sponsored (pending), April 18-20 2016, Baghdad, IRAQ

Manuscript Reviewerships:

• International Journal Of Machine Learning And Cybernetics, SPRINGER

PUBLICATIONS

A) PEER-REVIEWED JOURNALS:

- A1 Aljobouri, H. K. and N. K. Alani. Computer-Based ECG Signal Analysis and Monitoring System. *Al-Khwarizmi Engineering Journal* 4(3):120-127, 2008.
- A2 Aljobouri, H. K. and A. A. Aldergazly. Photo Dynamic Therapy (PDT) with Biological Tissues using Nd:Glass Laser. *Journal Engineering* 17(4):886-897, 2011.
- A3 Aljobouri, H. K. A Survey on Optical Fiber Sensors for Telemedicine Applications. Journal of Biomedical Engineering, Horizon Research Publishing HRPUB-USA-Universal 1(1):1-5, 2013.
- A4 Aljobouri, H. K. Çankaya, I. and O. Karal. From Biomedical Signal Processing Techniques to fMRI Parcellation. *Biosciences Biotechnology Research Asia* 12 (2): 1115–1138, 2015.
- A5 AlJobouri, H. K. Alziarjawey, H. A. and I. Çankaya. Biosignal Processing, Medical Imaging and fMRI (BSPMI) Software Package Based on MATLAB

GUI for Education and Research. *International Journal of Scientific Research in Information Systems and Engineering* 1 (2):2380-8128, 2015.

- A6 Jaber, H. A. Çamdalı, Ü. Çankaya, I. and H. K. AlJobouri. Design Graphical User Interface of Linear Algebra System Package by Using MATLAB. *International Journal on Recent and Innovation Trends in Computing and Communication* 4(6):428-433, 2016.
- A7 Jaber, H. A. AlJobouri, H. K. Kivrak S. and I. Çankaya. Design and Implementation of High Voltage Generator for Medical Applications. *International Journal of Science and Engineering Investigations* 6(60):118-122, 2017.
- A8 AlJobouri, H. K. Jaber, H. A. and I. Çankaya. Performance Evaluation Of Prototype-Based Clustering Algorithms Combined MDL Index. *Computer Applications in Engineering Education, Wiley Inc.* 25(4): 642–654, 2017.
- A9 AlJobouri, H. K. Jaber, H. A. Koçak, O. M. and I. Çankaya. Clustering fMRI data with a Robust Unsupervised Learning Algorithm for Interactive Neuroscience Data Mining. *Applied Magnetic Resonance, Springer*, under review, 2017.
- B) PEER REVIEWED PAPERS IN CONFERENCE PROCEEDINGS:
- B1 Aljobouri H. K. Wireless Bioinstrumentation for Telecare. 1st Middle East Conference on Biomedical Engineering MECBME'11, Sharjah-UAE, IEEE Xplore 5-10, 2011.
- C) ABSTRACTS IN CONFERENCE PROCEEDINGS:
- C1 AlJobouri, H. K. Alziarjawey, H. A. and I. Çankaya. Biosignal Processing and Medical Imaging (BSPMI) Software Package Based on Matlab GUI for Education and Research. 3rd International Symposium on Engineering, Artificial Intelligence and Applications (ISEAIA 2015), Girne American University 39, 2015.
- D) INVITED PRESENTATIONS:
- D1 2nd Scientific Conference of Al-Khwarizmi Engineering College (University of Baghdad, Nisan 22, 2008).
- D2 Symposium Scholarly: The Medical Engineering in Society Serving, "Medical Applications in Telemedicine" (Al-Nahrain University, College of Engineering, November 16, 2009).
- D3 Al-Nahrain Spring Festival "Cardio Angiography with Heart Catheterization" (Al-Nahrain University, College of Engineering, Nisan 20-21, 2010).
- D4 1st Middle East Conference on Biomedical Engineering MECBME'11, (American University of Sharjah, February 21-24, 2011).

D5 3rd International Symposium on Engineering, Artificial Intelligence and Applications ISEAIA 2015, (Girne American University-North Cyprus, November 4-6, 2015)

F) THESIS:

- E1 The interaction of Nd-Glass with biological tissues. B.Sc. Thesis. University of Baghdad, Baghdad, Iraq, 2000.
- E2 Designation of interface and software program as a base of ECG monitoring and signal analysis. M.Sc. Thesis. AL-Nahrain University, Baghdad, Iraq, 2004.
- E3 Clustering Functional MRI Data using a Robust Unsupervised Learning Algorithm. Ph.D. Thesis. Ankara Yıldırım Beyazıt University, Turkey, 2017.