Curriculum Vitae

Personal Information:

Family Name: **Alhanjouri**
First & Middle Name: **Mohammed Ahmad**
Nationality: Palestinian
Permanent Address: Alshohadaa St., Saker building–AlRemal-Gaza.
E-mail: mhanjouri@iug.edu.ps
                        alhanjouri@hotmail.com
Mobile phone: 00970 59 8923 752
Work phone: 00970 8 286 0700 ext. 1572

Background Education and Certificates:

Institution Name	Certificate	Dates	Academic Result
Mansoura University, Al-Mansoura, Egypt	Ph.D. in Electronics & Communications Eng.	Nov.2003 Feb. 2006	
Arab Academy for Science & Technology, Alexandria, Egypt	M.Sc. in Electronics & Communications Eng.	Oct. 1999 Jan. 2002	With Distinction
Omar Al-Mukhtar University, Al-baidaa, Libya	B.Sc. in Electrical & Communications Eng.	Sep.1993 Aug.1998	The 1st top (Honor)

Field of Interests:

- Artificial Intelligence
- Optimization Engineering
- Pattern Recognition (Image processing - Speech\Speaker recognition)
- Neural Networks
- Clustering
- Biomedical Engineering
- Bioinformatics Analysis

Work History:

❶ Islamic University of Gaza (2006- **now**) with responsibilities:
- Associate Professor from (2012-now)
- Assistant Professor from (2006-2012).
- Director of excellence and e-learning center/ Academic affairs (2013-now).
- Head of Computer Engineering Department (2010-**2012**)
- Director of projects and research center (2008-2009)
- Member of Faculty board. (2008-**2012)**
- Member of Computer engineering board. (2006- **now**)

❷ Assistant professor at Palestine University, Gaza (March 2006- July 2006), (January 2008- February 2008) with responsibilities: (volunteer).
- Dean of Library (three months).
- Member of Committee for establishing the Software engineering department.
- Head of Software engineering department
- Member of faculty of engineering board.

❸ Teaching Assistant at Arab Academy for Science and Technology and Maritime Transport, Alex., Egypt (February 2002 - January 2006) with responsibilities:
- Preparing the lab manual for Electronics Course.
- Presenting many seminars for Electronics and Communications Dept.

❹ Manager of Al-Amanah Office center for Computer services, October 1998-May 1999. With responsibilities:
- Teaching many of computer courses
- Hardware\Software Computer Maintenances
- Printing and preparing all Final Exams of Ministry of Education in Albeddaa city, Libya. (for Elementary and Preparatory levels)

Publications:

[25] H. Elaydi, **M. Alhanjouri**, and M. Abukmeil, "Palmprint recognition using 2-d wavelet, ridgelet, curvelet and contourlet," to appear in i-manager's Journal on Electrical Engineering (JEE), July- Sep, 2013.

[24] Hatem Elaydi, Mohanad A. M. Abukmeil and **Mohammed Alhanjouri**. "Palmprint Recognition Using Multiscale Transform, Linear Discriminate Analysis, and Neural Network." Science Journal of Circuits, Systems and Signal Processing (CSSP). 2013; 2(5): 112-118.

[23] **Alhanjouri, M.,** and Ahmed Al Haddad, "Optimize Wash Time of Washing Machine Using Fuzzy Logic," The 7th International Conference on Information & Communication Technology and Systems (ICTS 2013), May 15-16, 2013, Bali – Indonesia.

[22] **Mohammed Alhanjouri**, Mohammed A. H. Lubbad, and Mahmoud Z. Alkurdi, "Robust Speaker Identification Using Denoised Wave Atom and GMM," *International Journal of Computer Applications (IJCA)*, Vol. 67, No. 5:17-23, April 2013. ISBN: 973-93-80874-05-9. Published by Foundation of Computer Science, New York, USA.

[21] **Mohammed Alhanjouri**, and Ahmed Al Ostaz, "BFO vs. BSO for Video Object Tracking Using Particle Filter (PF)," Journal of Emerging Trends in Computing and Information Sciences (CIS), Vol. 4, No. 3, Feb 2013, ISSN 2079-8407

[20] **Mohammed Alhanjouri,** "Bacteria Foraging Optimization Algorithm Based on Optimal PID Tuning," The International Conference on Control, Modelling, Computing and Applications (CMCA-2012), December 28-29, 2012.Dubai, UAE.

[19] **Mohammed Alhanjouri**, and Rawand Ahmed, "GMDBSCAN-UR as a New Density-Based Clustering Technique", the 1st international conference for computing and informatics (ICCI-12), University of Helwan, Cairo, Egypt, 11-13 December 2012.

[18] **Mohammed Alhanjouri**, and Ramzy Al ghamri, "Optimal PID Tuning by Using Bacteria Foraging Optimization Algorithm", to published in The 4th International Engineering Conference (IEC4), Islamic University of Gaza, Palestine, 15-16 Oct. 2012.

[17] Ahmed Abo absa, and **Mohammed Alhanjouri,** "PID Parameters Optimization Using Bacteria Foraging Algorithm and Particle Swarm Optimization Techniques for Electrohydraulic Servo Control System", to published in The 4th International Engineering Conference (IEC4), Islamic University of Gaza, Palestine, 15-16 Oct. 2012.

[16] **Mohammed Alhanjouri** and Ayman Al Derawi, "A New Method of Query over Encrypted Data in Database using Hash Map", International Journal of Computer Applications (IJCA), Vol. 41, No. 4, pp. 46-51, March 2012. Published by Foundation of Computer Science, NY, USA.

[15] **Mohammed Alhanjouri**, "Multi-Resolution Analysis for Medical Image Compression", International Journal of Computer Science and Information Technology, Vol. 3, No. 6, December 2011, pp.215-228. ISSN: 0975-4660.

[14] **Mohammed Alhanjouri**, "Curvelet and Waveatom Transforms Based Feature Extraction for Face Detection", Alaqsa University Journal, Vol. 15, No.1.

[13] **Mohammed Alhanjouri** and Rwand Ahmed, "New Density-Based Clustering Technique: GMDBSCAN-UR", International Journal of Advanced Research in Computer Science, Vol 3, No. 1, January-February 2012, ISSN: 0976-5697.

[12] **Mohammed Alhanjouri** and Ayman Al Derawi, "New Method of Query over Encrypted Data in Database", International Journal of Computer Information Systems, Vol. 3, No. 2, August 2011, pp.13-18. ISSN: 2229-5208.

[11] **Mohammed Alhanjouri** and Belal Alfarra, "Ant Colony versus Genetic Algorithm based on Travelling Salesman Problem", International Journal of Computer Technology and Applications, Vol 2, No. 3, pp. 570-578, May-June 2011, ISSN:2229-6093.

[10] Mohammed Alhanjouri and Hana Hejazi, "DIC Structural HMM based IWAK-means to Enclosed Face Data", International Journal of Computer Applications (IJCA), Vol. 18, No. 4, pp. 43-50, March 2011. Published by Foundation of Computer Science. NY., USA.

[9] Hana Hejazi and **Mohammed Alhanjouri,** "A comparative study on waveatom transform for face recognition", The 3rd International Conference on Engineering & Gaza Reconstruction, October 10-11, 2010, Gaza, Palestine.

[8] Hana Hejazi and **Mohammed Alhanjouri,** "Face recognition using Curvelet Transform", The Twenty Third International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA-AIE 2010), June 1-4, 2010, Cordoba, Spain.

[7] Hana Hejazi and **Mohammed Alhanjouri**, "Curvelet Based Face Recognition", The 3rd Palestinian International Conference on Computer and Information Technology (PICCIT 2010), March 9-11, 2010, Hebron, Palestine.

[6] Mohammed Alhanjouri, Mohammed YousefHussien,. "Classification of Multispectral Chromosome Images." Information Technology Forum, May 12-13, 2009, Islamic University of Gaza, Palestine.

[5] **Alhanjouri, M.,** "Monitoring and Control Water Network Using GIS". The 4th International Conference on Information & Communication Technology and Systems (ICTS) 2008, August 5th, 2008, Surabaya – Indonesia, pp. 163-175.

[4] **Alhanjouri, M.,** Abou-Chadi, F. E.Z., and Hamdy, N., "Segmentation and Classification of Multispectral Chromosome Images", <u>IEEE conference</u>, the 22nd National Radio Science Conference (NRSC'2005)-URSI, March 15-17, 2005, C26.

[3] **Alhanjouri, M.,** Hamdy, N., and Abou-Chadi, F. E.Z., "Feature Analysis and Classification of the Human Chromosome Images", Second International Conference on Intelligent Computing and Information Systems, 5-7 March 2005, Cairo, pp. 175-163.

[2] **Al-Hanjouri, M.**, Alkhaldi, W., Hamdy, N., and Abdel Alim, O., "Heart Diseases Diagnosis Using HMM", <u>IEEE</u>, MELECON 2002, May 7-9, 2002, Cairo, Egypt.

[1] Abdel-Alim, O., Hamdy, N., and **Al-Hanjouri, M.**, "Heart Diseases Diagnosis Using Heart Sounds", <u>IEEE conference</u>, Nineteenth National Radio Science Conference (URSI), March 19-21, 2002, Alexandria, Egypt.

Seminars and Presentations:

[13] **HMM vs. ANN Based on Automatic Speech Recognition**, 20-2-2013, For Seminar Day of Computer science Department, Faculty of Information Technology, IUG

[12] **GMDBSCAN-UR as a New Density-Based Clustering Technique,** 12-12-2012, Concorde el Salam hotel Cairo, for University of Helwan.

[11] **Interactive E-Learning,** 20-2-2012, for study day for Engineering-Education Faculties.IUG, Gaza, Palestine.

[10] **Graduate Studies Opportunities: Locally and Internationally,** 11-12-2010, Faculty of engineering, Islamic University of Gaza.

[9] **Features analysis and Classification of Human Genome,** 4-4-2010, Islamic University of Gaza, Palestine.

[8] **Biometric Identification Systems**, 9-11-2007, For <u>IEEE Session</u>- Student Branch at Islamic University of Gaza, Palestine.

[7] **Chromosome Classification Techniques**, 3-12-2005, AlMansoura University, Egypt.

[6] **Segmentation and Classification of Multispectral Chromosome Images,** 17-3-2005, 22nd NRSC conf., Arab Academy for Science and Technology, Cairo, Egypt.

[5] **Feature Analysis and Classification of the Human Chromosome Images**, 6-3-2005, 2nd ICICIS Conf., Ain-Shams University, Cairo, Egypt.

[4] **Introduction to Data Analysis for Bioinformatics**, 7-12-2004, <u>IEEE Session</u>- Student Branch at Arab Academy for Science and Technology, Alex., Egypt.

[3] **Heart Diseases Diagnosis Using Hidden Markov Model,** 8-5-2002, 11th IEEE MELECON Conf., Hilton Hotel, Cairo, Egypt. 8-5-2002.

[2] **Heart Diseases Diagnosis Using Heart Sounds,** 21-3-2002, 19th NRSC conf., Alexandria University, Egypt.

[1] **Heart Diseases Diagnosis**, 10-12-2001, Arab Academy for science and Technology and Maritime transport, Alex. Eygpt.

Book Chapter

[1] Book title: <u>Trends in Applied Intelligent Systems</u>, Editors: Nicolás García-Pedrajas, Francisco Herrera, Colin Fyfe, José Manuel Benítez, Moonis Ali. LNAI 6096, 2010 Chapter Title: <u>Face Recognition Using Curvelet Transform</u>. pp. 388-396 Authors: Hana Hejazi and **Mohammed Alhanjouri**. Springer – verlag Berlin Heidelberg, ISBN: 978-3-642-13021-2 (Print) 978-3-642-13022-9 (Online).

Program Committee
Outside IUG

[1] Member of editorial board of IJCSIT journal (AIRCC)

[2] Member of Program Committee of SAI-2013 conference, Dubai.

[3] Member of Program Committee of CMCA-2013 conference, Dubai.

[4] Reviewer for the international conferences (ACITY2013 – CNSA2013 – ITCSE2013)

[5] Member of referee committee for competition of Made in Palestine.

[6] Chairman of the equivalence committee of engineering certificates at Ministry of higher education.

Inside IUG

[1] Member of Scientific Committee of IEC5 conference, IUG.

[2] Reviewer for the 4th International Engineering Conference "Towards the Engineering of the Twenty First Century", 15-16 Oct. 2012, IUG

[3] Chairman of Organizing Committee for 3rd Technological Engineering Forum. (19-20 may 2009).

[4] Consultant for developing of communications labs in electrical engineering department at IUG (QIF project).

[5] Member of Strategic Planning Committee in faculty of engineering.

[6] Member of Scientific Research Committee for faculty of engineering (2012-now)

[7] Chairman of equivalence committee of computer engineering courses (2012-now)

[8] Member of Curriculum and Assessment Committee for faculty of engineering (2010-**2012**)

[9] Chairman of technical committee for website of faculty of engineering and computer department (2008-2009).

[10] Chairman of laboratories committee at computer department. (2008-2010)

Reports and Projects

[1] 2006, Ph.D. Thesis: "Feature Analysis and Classification of Human Chromosome Images ", Mansoura University, Egypt.

[2] 2002, Master Thesis: "Heart Diseases Diagnosis Using Heart Sounds ", Arab Academy for Science and Technology, Alex., Egypt.

[3] 1998, Graduation Project: "Artificial Intelligence; Neural Networks to Numbers Recognition", Albeddaa city, Libya.

Training Courses:

Location	Dates	Description
English Language Institute, IUG	April2013 - May 2013	36-hour for A Preparation Course for IELTS Exam
E-Learning Center at IUG	June 2010 - July 2010	30-hour for training course in Instructional Design
Al-baidaa central for Telecommunication	July 1997 - Sep. 1997	Underground coaxial cable unit maintenance
Sakr office center, Libya	Aug. 1996 - July 1997	Computer maintenance and teaching a six programming courses

Software Experience:

- MATLAB
- Hidden Markov model Toolkit (HTK)
- C \ C++, Visual basic, and Fortran
- Electronic Work Bench
- FEKO
- Micro Cap
- P-Spice (ORCAD family.)
- Microsoft Office
- Surfing the Internet
- Assembly language

Courses that I taught:

The university	The courses
Islamic University of Gaza	**1- Engineering Optimization (M.Sc.)** **2- Artificial Intelligence (M.Sc)** 3- Speech Signal Processing (M.sc., B.Sc.) **4- Neural Networks (M.Sc.)** **5-** Discrete Mathematics **6-** Digital Electronics **7-** Biomedical Engineering **8-** Wireless Communications **9-** Engineering Communications I **10-** Microwave Technology **11-** Selected topics in electrical Eng. **12-** Electronics II **13-** Research Methodologies and Advanced Technical English Writing - Training course in advanced wireless comm. for engineers at IUG
University of Palestine	**1-** E-learning and Research Methodology **2-** Computer Architecture **3-** Understanding Telecommunications **4-** Discrete Mathematics
Al-Quds open Univ.	**1-** Computer Principles **2**- Networks Programming **3-** Introduction to Analog and Digital Communications
Arab Academy for Science and Technology	**1-** Electronics I **2-** Communication Theory **3-** Electronics II **4-** Communication System I **5-** Electronics III **6-** Microwave Technology **7-** Measurements and Instrumentations

Languages:

Arabic: Mother Tongue
English: V. good

Grants:

1. Received a Deanery of Scientific Research grant of $800 for a project titled "New Method of Query over Encrypted Data in Database" for the academic year of 2010/2011.

2. Received a Fund from Coastal Municipalities Water Utilities of $1000 for a project titled "Monitoring and Control Dier El-Balah's Water Network Using GIS" for the academic year of 2007/2008.

3. Received a Project and Research Center grant of $600 for a project titled "Computer Numerical Control (CNC) Milling Machine" for the academic year of 2008/2009.

4. Received a fund from Al-Talaee company of 300$ for a project titled "Heart Diseases Diagnosis by Heart Sounds" for the academic year of 2006/2007.

5. Received a PNGO grant (supervised by UNDP and sponsored by JAPAN: Official Development Assistance) of 2400$ for project titled "Hand Talking Gloves" for academic year 2010/2011

Prizes:

1. Received a Deanery of Scientific Research prize as supervisor of the best M.Sc. thesis in faculty of engineering (2009/2010)

2. Received a Deanery of Scientific Research prize as supervisor of the best senior project in computer engineering department (2008/2009)

3. Received a Deanery of Scientific Research prize as supervisor of the best senior project in computer engineering department (2012/2013)

Hobbies:

• Surfing the internet.   • Walking
• reading about history and technology   • football and sporting
• drawing and handwriting   • Natural scene thinking

Extra Curricular Activities:

• Active Member of the Palestinian Engineering Syndicate.

• Member of the Research National Center (Gaza-Palestine).

• Member of Palestinian Information and Communications Technology Association (PICTA).

References: Available upon request.