# Prof. Dr. Eng. Mohammed Awad

# Curriculum Vitae





PERSONAL INFORMATION	
Name	MOHAMMED AWAD.
Address	Arab American University-Jenin, Palestine. P.O. BOX 240. <u>http://www.aaup.edu</u>
Office Tele Mobile. E-mail	+972 4 2418888/1604. +972 599559648. mohammed.awad@aaup.edu mohammed.awad@gmail.com https://www.aaup.edu/mohammed.awad
Nationality Date of Birth	Palestinian. January, 21/ 1976.
Marital Status	Married with 3 Children
Profile:	<ul> <li>Academic Kank: Futt Frojessor in Computer Engineering/Artificial Intelligent</li> <li>Excellent Experience in Teaching: Graduate (Ph.D, Master) and Undergraduate Courses.</li> <li>Examiner and Supervisor for PhD and Master Thesis</li> <li>Excellent Publication Record.</li> <li>Awarded Many Scholarships.</li> <li>Had Won Scientific Research Excellence Awards.</li> <li>Excellent Experience in Evaluation academic Programs Degrees for the Ministry of Higher Education.</li> <li>Excellent Experience in Managing the Academic Departments, Including Working on Creating, Renewing and Obtaining Accreditation.</li> <li>Excellent Experience in Managing Scientific Research: Funding Projects, Organizing Conference Attendance, Scholarship Programs, and Research Awards.</li> <li>Excellent Experience in University Committees and Councils.</li> <li>Former chairperson of the Computer Systems Engineering department, and the Computer Information Technology department.</li> <li>Former and Current Editor-In-Chief, Journal of the Arab American University.</li> <li>Former Chairman of the Preparatory Committee of Several Local Conferences.</li> <li>Excellent Experience in Organize Local and International Conferences.</li> </ul>

# EXPERIENCE

- Date: (From - To):
- Name and Direction:
- Type of Sector:
- Charge:

#### **Responsibilities**

- Teach graduate and undergraduate students and prepare their exams.
- Guide, direct and mentor research scholars in their research projects.
- Take part in all activities of the department and college.
- Grade papers and tests; prepare exercises, lessons and lab experiments for the students.
- Perform research and participate in conferences.

Arab American University-Jenin, Palestine.

- Participate in the committees and councils of the university.
- Participate in evaluating and developing the programs and syllabuses.

# 08/12/2010 - 11/12/2016.

Arab American University-Jenin, Palestine. University.

# Associate Professor.

12/12/2016

Full Professor.

University.

•

- Teach graduate and undergraduate students and prepare their exams. •
  - Guide, direct and mentor research scholars in their research projects.
  - Take part in all activities of the department and college.
  - Grade papers and tests; prepare exercises, lessons and lab experiments for the students.
  - Perform research and participate in conferences.
  - Participate in the committees and councils of the university.
  - Participate in evaluating and developing the programs and syllabuses.

# 01/09/2014 - 31/08/2016 & 1/8/2020 - ...

Arab American University-Jenin, Palestine. University.

# Dean of Scientific Research.

The responsibilities include in addition to the Associate Professor (Teaching Load 6 Credit Hours) responsibilities:

- Follow up the activities of the Deanship.
- Prepare for Scientific Research Council meeting.
- Implements the decisions of the Scientific Research Council. •
- Oversees the preparation of the overall budget and follow up their Implementation.
- Planning, Managing, promotion and Organizing the Support of research activities that are carried out by the academic departments Through internal and external funding.
  - Organizing the process of internal Funding for research projects.
- Organizing the central workshops that serve the research needs of the colleges.
- Organizing appropriate financial support for publication of papers presented by faculty members in scientific indexed journals.
  - Organize and manage the Award Engineer ZUHAIR HIJJAWI.

- Date: (From - To):
- Name and Direction:
- Type of Sector:
- Charge:

## Responsibilities

- Date: (From - To):
- Name and Direction:
- Type of Sector:
- Charge:

#### **Responsibilities**

<ul> <li>Date: (From - To):</li> <li>Name and Direction:</li> <li>Type of Sector:</li> <li>Charge:</li> </ul>	01/09/2014 – 31/08/2016. & 1/8/2020 Arab American University-Jenin, Palestine. University. <u>Editor-in-Chief.</u> Journal of the Arab American University.
<u>Responsibilities</u>	<ul> <li>Works with Editorial Board to develop strategies for the Journal.</li> <li>Serve as a liaison between the reviewers and publisher, and Editorial Board.</li> <li>Seeks advice from the Editorial Board on important issues.</li> <li>Rejecting writing that appears to be plagiarized, ghost-written, published elsewhere.</li> <li>Motivating and developing editorial staff.</li> <li>Ensuring the final draft is complete and there are no omissions.</li> <li>Defines the instructions to authors in conjunction with Editorial Board for the preparation of manuscripts.</li> <li>Convenes the Editorial Board meeting.</li> </ul>
<ul> <li>Date: (From - To):</li> <li>Name and Direction:</li> <li>Type of Sector:</li> <li>Charge:</li> </ul>	01/10/2013 – 31/8/2014. Arab American University-Jenin, Palestine. University. Vice Dean of Scientific Research.
<u>Responsibilities</u>	The responsibilities include in addition to the <u>Associate Professor</u> ( <i>Teaching Load 9 Credit Hours</i> ) responsibilities:
	<ul> <li>Working with the Dean to develop the Scientific Research Deanship.</li> <li>Follow up the activities of the Deanship.</li> <li>Prepare for the Scientific Research Committee meeting.</li> <li>Implements the decisions of the Scientific Research Committee.</li> <li>Oversees the preparation of the overall budget and follow up their implementation.</li> <li>Organizing the Support of research activities that are carried out by the academic departments through internal and external funding.</li> <li>Organizing the process of internal Funding for research projects.</li> <li>Organizing the central workshops that serve the research needs of the colleges.</li> <li>Organizing appropriate financial support for publication of papers presented by faculty members in scientific indexed journals.</li> <li>Organize and manage the Award Engineer ZUHAIR HIJJAWI.</li> </ul>
<ul> <li>Date: (From - To):</li> <li>Name and Direction:</li> <li>Type of Sector:</li> <li>Charge:</li> </ul>	<ul> <li>1/7/2013 -1/9/2013 (Summer Course).</li> <li>Arab American University-Jenin, Palestine.</li> <li>University.</li> <li>Acting Dean of Graduate Studies &amp; Scientific</li> <li>Research.</li> </ul>

<u>Responsibilities</u>	The responsibilities include in addition to the <u>Associate Professor</u> responsibilities:
	<ul> <li>Planning, Managing, promotion, and support of research activities that are carried out by the academic departments through internal and external funding.</li> <li>Administration of the Master programs of instruction leading to graduate credit and graduate degrees.</li> <li>Funded research projects, professional conference attendance, research scholarship programs, and research awards.</li> <li>Manage central workshops that serve the research needs of the colleges.</li> <li>Planning and managing research and other scholarly activities through the scientific research Council or Committee.</li> <li>Providing appropriate financial support for publication of papers presented by faculty members in scientific indexed journals.</li> </ul>
<ul> <li>Date: (From - To) :</li> <li>Name and Direction:</li> <li>Type of Sector:</li> <li>Charge:</li> </ul>	<b>01/09/2012 –31/8/2013.</b> Arab American University- Jenin, Palestine. University.
• Charge.	<u>Vice Chairperson of Scientific Research Committee.</u>
<u>Responsibilities</u>	The responsibilities include in addition to the <u>Associate Professor</u> ( <i>Teaching Load 9 Credit Hours</i> ) responsibilities
	<ul> <li>Preparation and organization of meetings of the Scientific Research Committee.</li> <li>Organizing the Support of research activities that are carried out by the academic departments through internal and external funding.</li> <li>Organizing the process of internal Funding for research projects.</li> <li>Organizing the central workshops that serve the research needs of the colleges.</li> <li>Organizing appropriate financial support for publication of papers presented by faculty members in scientific indexed journals.</li> <li>Organize and manage the Award Engineer ZUHAIR HIJJAWI.</li> </ul>
<ul> <li>Date: (From - To) :</li> <li>Name and Direction:</li> <li>Type of Sector:</li> </ul>	<b>01/09/2010 –15/9/2012. &amp; 1/8/2019 –1/8/2020</b> Arab American University- Jenin, Palestine.
• Charge:	Head of Computer Systems Engineering Department.
<u>Responsibilities</u>	The responsibilities include in addition to the <u>Associate Professor</u> ( <i>Teaching Load 9 Credit Hours</i> ) responsibilities.
	Creating different committees, assigning responsibilities to these committees, assigning responsibilities to the individuals in the department, preparing the class schedule, appointing faculty members, preparing assessment forms, developing the curriculum, maintain the academy standards with each course, monitoring instructors performance (including lectures, assignments,), instructors development, maintaining good relationships among the staff, the availability of the resources, and preparing the annual reports.

- Date: (From To):
- Name and Direction:
- Type of Sector:
- Charge:

## Responsibilities

# 01/02/2006 - 08/12/2010.

Arab American University-Jenin, Palestine. University.

# <u>Assistant Professor.</u>

- Develop and execute inventive instructional methods.
- Guide, direct and mentor research scholars in their research projects.
- Review, assess and evaluate the activities and progress of students.
- Grade papers and tests; prepare exercises, lessons and lab experiments for the students.
- Teach undergraduate students and prepare their exams.
- Do research and participate in conferences.

Arab American University-Jenin. Palestine.

01/10/2006 - 01/09/2010.

University.

- Participate in the committees and councils of the university.
- Participate in evaluating and developing the programs and syllabuses.
- Date: (From To):
- Name and Direction:
- Type of Sector:
- Charge:

#### **Responsibilities**

# The responsibilities include in addition to the <u>Assistant Professor</u>. responsibilities:

Which had two Degrees CIT and MMT (MMT 2007).

Creating different committees, assigning responsibilities to these committees, assigning responsibilities to the individuals in the department, preparing the class schedule, appointing faculty members, preparing assessment forms, developing the curriculum, maintain the academy standards with each course, monitoring instructors performance (including lectures, assignments,...), instructors development, maintaining good relationships among the staff, the availability of the resources, and preparing the annual reports. *Teaching Load 9 Credit Hours*.

Head of Computer Information Technology Department

## 08/2005 - 01/2006.

Granada University. Research Project.

<u>Contract Researcher in the Research Group of Dept. of</u> <u>Computer Architecture and Computer Technology.</u>

13/6/2010 - 17/7/2010.

Granada University.

Erasmus Mundus academic Staff Scholarship.

# Invited Professor at the Granada University –Spain, in the Program of Erasmus Mundus Academic Staff Scholarship.

#### Sept 2000 – Sept 2001

Working as Engineer in Factories and in Electrical Power Translation and Distributions with Japan NJOs for building Schools in Palestine.

- Date: (From To):
- Name and Direction:
- Type of Sector:
- Charge:

• Date: (From - To): Name and Direction:

- Type of Sector:
- Charge:
- Date: (From To) :

<b>EDUCATION</b>	
• Date: July 2003 – July 2005	
<ul><li>Name of the University:</li><li>Main Materials Treated:</li></ul>	University of Granada – Spain. Ph.D. Thesis in the Dept. of Computer Architecture and Computer Technology. Inside the Ph.D. program: <i>Computer Engineering:</i> <i>Perspectives and Applications.</i> (Scholarship From Spanish Government).
<ul> <li>Certificate of Qualification Degree:</li> </ul>	<b><u>Doctor of Computer Engineering.</u></b> High degree of honor. (Sobresaliente Cum Laude).
• Ph.D. Thesis Title:	MODELING OF COMPLEX SYSTEMS USING HIERARCHIC STRUCTURES OF RADIAL BASIS FUNCTION NETWORKS.
• DETAILS:	In the Ph.D. Thesis, we described a new technical approach focused on the search of new architectures to modeling complex systems of function approximation, without the increase of the number of input variables has to suppose an exponential increase of the complexity of the approximate system. The proposed Neural Network structure is formed by radial basis function neural networks with only one output for all and with the property of which every RBFNN can take charge of a set of variables of inputs and not of all. We designed new algorithms for the initialization of RBFNN parameters designed for the problem of function approximation. We have also provided a method, which automatically finds the most suitable topology of the proposed Neural Network structure and selects the most important inputs for it.
• Date: Oct 2002 – Jul 2003	
<ul><li>Name of the University:</li><li>Main Materials Treated:</li></ul>	University of Granada – Spain. Master in Computer Engineering. In the Dept. of Computer Architecture and Computer Technology. Inside the Ph.D. program: Computer Engineering: Perspectives and Applications. (Scholarship From Spanish Government).
<ul> <li>Degree:</li> </ul>	High Degree with honor. (Sobresaliente).
• DETAILS:	The design of Algorithms for the optimization of Neural Networks focused on autonomous control. We used Traditional Algorithms to optimize Neural Networks and Topology of Neural Networks. <i>(it's a part of the Ph.D. Thesis.)</i>
• Date: Oct 2001 – Jul 2002	
• Name of the University:	University of Granada – Spain.
<ul> <li>Main Materials Treated:</li> </ul>	<u>Courses</u> in the Dept. of Computer Architecture and Computer Technology, inside the Ph.D. program: Computer Engineering: Perspectives and Applications.
<ul> <li>Degree:</li> </ul>	High Degree of honor. (Sobresaliente). (Scholarship From Spanish Government).

• DETAILS: Each course of 3 credit hours	<ul> <li>Computers and Biomedical Instrumentation.</li> <li>Advanced Tools for System Simulation.</li> <li>Advanced Languages and Tools for Hardware Design (VHDL).</li> <li>Microcontrollers of Low Consumption.</li> <li>Advanced Models for Time Series Prediction.</li> <li>Control Systems of Intelligent Building: (Demotic).</li> <li>Intelligent Systems Processing.</li> </ul>
• Date: Oct 1995 – Jul 2000	
<ul><li>Name of the University:</li><li>Main Materials Treated:</li></ul>	Palestine Polytechnic University, Palestine. B.A. Eng.: Industrial Automation Engineering.
• Degree:	Very Good.
• DETAILS:	Industrial automation, computer-assisted manufacturing, and robotics have opened new fields in the planning, installation, and service of automated equipment and systems. Industrial automation can help make factories more efficient in the use of personnel, materials, and machines. They can also have responsibilities for workflow and analyze production. Some may be involved in the design, development, and testing of new manufacturing techniques and systems.
	<b>Important Courses from B.A:</b> Programming Languages, Control systems, Power Electronics, Microprocessor, Microprocessor Lab, Interfacing and Data Comm. The principal of Sensors, Electrical Drive I, Electrical Drive I Lab, Electrical Drive II Electrical Drive II Lab, Signal and System Analysis, Electrical Protection System, Hydraulic and Pneumatic Systems, Hydraulic and Pneumatic Systems Lab, Automatic Control, Automatic Control Lab Principals of Robot Systems.
	Graduation Project I and II ( <b>Building an Automation system SW and HW of Stone Saws that make the process of cutting stones more precise and more efficient</b> ).
SKILLS:	<ul> <li>Computer (MATLAB (excellent experience), C++, VB, PHP, JavaScript, HTML, MySQL Server, VHDL, Assembly language, Prolog)</li> <li>Very good Knowledge of Learning Algorithms for NNs.</li> <li>Experience and very good knowledge of System for parallel processing in Neural Networks.</li> <li>Very Good knowledge of PLC, electrical drive, and control system.</li> <li>Assists the director of my Ph.D. in laboratories.</li> </ul>
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	• <u>Small Project :</u>
	<ul> <li>Control of the center of gravity of car robot using VHDL.</li> <li>Intelligent control of parking using PLC.</li> <li>Control of the temperature room using a Fuzzy Logic controller.</li> </ul>
MOTHER LANGUAGE	ARABIC.
OTHER LANGUAGES	SPANISH.
• Reading: • Writing: • Oral Expression:	Very Good. Very good. Excellent.
	ENGLISH.
<ul><li> Reading:</li><li> Writing:</li><li> Oral Expression:</li></ul>	Very Good. Very Good. Very Good.
CONFERENCES & COURSES	
Date: Jun 2005	Intarnational Work Artifitial Neural Networks (IWANN) 2005, Springer-Verlag Berlin Heidelbergm, Barcelona.
<ul> <li>Date: 1/10/2005 – 30/12/2005</li> </ul>	Administrator of Servers and Web Pages 350 Contact hours.
Date: (07–08)/07/2008	Intel Higher Education Program (Technology Entrepreneurship) Theory to Practice <i>Seminar</i> .
Date: (9-11/3/2010)	The 3 <sup>rd</sup> Palestinian International Conference on Computer and Information Technology. Hebron- Palestine.
• Date: (26/1/2012)	External Examiner for Master Thesis at Palestine Polytechnic University.
Date: (24-28/8/2014)	Training Workshop "Technology Transfer And Intellectual Property Commercialisation Training For Universities"
• Date: (17/11/2014)	Organize the Conference "Practical Education System and its Impact on Education in Palestine" Partnership with the Ministry of Education.
Date: (20/04/2015)	Organize the Conference "The First Applied Bio-Medical Science" Partnership with the Ministry of Health.
• Date: (12/05/2014)	Organize the Conference "Mechanisms to Strengthen Scientific Research in the Palestinian universities".

•	Date: (14/05/2014)	Organize the Conference "What is the Legal System of Brand Names in Palestine".
•	Date: (30/10/2014)	Technological Ibdaa Conference. (Technology Transfer).
•	Date: (8-12/6/2015)	<b>INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS</b> <b>AND MATHEMATICAL MODELLING (ICAAMM2015)</b> jointly organized by Yıldız Technical University, University Putra Malaysia and Malaysian Mathematical Sciences Soc. The conference will be held on <b>8-</b> <b>12 JUNE 2015 in ISTANBUL, TURKEY.</b>
•	Date: (/6/2016)	<b>INTERNATIONAL CONFERENCE ON PURE &amp; APPLIED</b> <b>SCIENCES (ICPAS 2016)</b> jointly organized by Yıldız Technical University. Date 1-5 /06/2016 ISTANBUL, TURKEY
•	Date: (6/2017)	<b>INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS</b> <b>AND MATHEMATICAL MODELLING (ICAAMM2017)</b> jointly organized by GELISIM University, <b>3-7 July 2017 in Istanbul</b> , <b>TURKEY</b>
•	Date: (6/2018)	INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2018) jointly organized by GELISIM University, 20-24 JUNE 2018 in ISTANBUL, TURKEY
•	Date: (6/2019)	2 <sup>nd</sup> International Conference on Life and Engineering Sciences (ICOLES 2019) Medipol University, İstanbul-TURKEY with sponsorship of İstanbul Medeniyet University, IEEE Turkey, 27- 29 JUNE 2019
•	Date: (26-28/3/2015)	General Conference of the Association of Arab Universities at its Forty-eighth session (Lebanon session), Saint Joseph University.
•	Date: (1/12/2015)	Training Course on the basics of Scientific Research for Schools Teachers in the Ministry of Education.
•	Date: (2014-2019)	<ol> <li>Supervision of Several Master Thesis:         <ol> <li>Performance Evaluation and Classification of Solar Cells Efficiency According To Area Using Neural Networks. 2015/03/23.</li> <li>Text Mining Using Radial Basis Function Neural Networks and Optimization Algorithms. 2015/11/01.</li> <li>Academic Advising and Supporting University Students Using Fuzzy Expert Systems. 1/11/2015.</li> <li>Intelligent Solution for Newly Cyberspace Attacks 1/10/2016.</li> <li>Forecasting Weather Conditions Using Artificial Neural Networks 1/10/2016.</li> <li>A Markovian Model for an IoT Network 1/10/2016.</li> <li>Prediction of Water Demand in North of Palestine Using Artificial Neural Networks. 1/10/2017.</li> </ol> </li> </ol>

- 9. Intelligent Prediction Model for Non-Revenue and Demand of Urban Water: Case Study Beitunia City. 1/3/2018.
- 10. Prediction of Stock Markets Price Using Hybrid Intelligent System. 1/3/2018.
- 11. Intelligent Medical Diagnosis and Decision Support System Based on Medical Data 1/11/2018.
- 12. Time Series Prediction of Server Workload Using Hybrid Model of Recurrent Neural Network and Optimization Algorithms 1/3/2019.
- 13. Classification and Prediction Model of Renewable Energy Depending on Weather Factors Using Artificial Intelligence Techniques 1/3/2019.
- 14. Prediction and Classification Analytics of Obesity Datasets Using a Hybrid Model of Clustering and Neuro-Fuzzy Methods 9/2019.
- 15. Evaluation and Forecasting of University Students Performance Using Neural Networks and Fuzzy Logic Models 9/2019.
- 16. Assessment of Risk and Prevention factors of Colorectal Cancer (CRC) in Palestine: A framework for prediction tool 9/2019.
- 17. Feasibility of linking electronic medical records in governmental hospitals with mother and childhood (MCH) e Registry in Primary Health Care Clinics in Palestine 9/2019.
- 18. Measurement of Mammography Screening Performance in Palestine 9/2019.
- **19.** Visual Analytics Approach of Epidemiological Characteristics of COVID-19 in Palestine.
- 20. Comparative Study: Surgical Site Infection in Planned and Urgent Cesarean Section, at Al Istishri Arab Hospital.
- 21. Prediction of Chronic Kidney Disease Depending on Patient Treatment History Using Machine Learning Techniques.
- 22. Health Information security and privacy in the Palestinian Ministry of Health.
- 23. Role of Clinical Decision Support System in Determining the Stage, Diagnosing, and Suggesting a protocol for treating Breast Cancer.
- 24. Classification and Prediction of Low-Density Lipoprotein Cholesterol LDL-C in the Palestinian Patients using Machine Learning Technique.
- 25. Prediction of Compressive Strength of Concrete in Palestinian Governorates Using Machine Learning Techniques.
- 26. Electricity Consumption Prediction Using Artificial Neural Networks and Evolutionary Algorithms: A Case Study Tulkarem City.
- 27. Detection and Classification of Abnormality in Electroencephalogram Signals Using Deep Learning and Convolutional Neural Networks.

#### **Examiner for Master Thesis:**

- 1) A New Visual Basis Software Built- up 1 for solving-out Reduction Formula in Chemical Applications of Group Theory 6/2009
- 2) A Novel Visual Basic Software for 2 Projection Operator Calculations in Chemistry 6/2009
- 3) E-MOGA: A General Purpose Platform for the Genetic Algorithm running on CUDA 1/2012
- 4) Efficient Feature Selection using Particle Swarm Optimizations: A Hybrid Filter Approach. 6/2016
- 5) Optimization of High-Dimensional Data Visualization using Parallel Genetic Algorithm. 5/2016
- 6) E-MOGA: A General Purpose Platform for Multi-Objective Genetic Algorithm running on CUDA.

Date: (2009-2019)

	<ul> <li>1/2012</li> <li>7) A Novel Visual Basic Software for Projection Operator Calculations in Chemistry. 10/2009</li> <li>8) A New Visual Basis Software Built- up for solving out Reduction Formula in Chemical Applications of Group Theory. 10/2009</li> <li>9) Protein Classification Optimization based on Encoding Descriptors 1/2017</li> <li>10) Adaptive MOOCs: A Framework for Adaptive Course based on Intended Learning Outcomes 1/2018</li> <li>11) Prediction of Pipes Break in Water Distribution System Using Data Mining Tools 1/2018</li> <li>12) Query Reformulation in the Context of Medical Information Retrieval 9/2018</li> <li>13) Sentiment Analysis Of Social Networks Using Hybrid System: Dictionay-Based And Fuzzy Logic 2/2019</li> <li>14) Academic Performance Prediction for Engineering Students using RBF-SVM Classification Model Case Study: PPU. 7/2019</li> <li>15) Using PSO and WSVM to Enhance Imbalanced Data Classification 9/2019.</li> </ul>
<u>ACTIVATES</u> :	
<ul> <li>Date: (8-12/6/2015)</li> </ul>	Had Won The Palestinian Islamic Bank Award For The Excellence In Scientific Research. (The Best Scientific Paper In The Palestinian Universities )
• Date: (8-12/6/2015)	Had Won the Best Poster Award at the International Conference "INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING (ICAAMM2015)", Yıldız Technical University of Istanbul-Turkey.
<ul> <li>Date: 9/2014 – 09/2016</li> </ul>	Member of Scientific Research Council in Palestinian Universities (Held Every Three Months to Follow up the Development of Scientific Research on the National Level).
<ul> <li>Date: 2012 –2016</li> </ul>	Organize, Manage, and Supervised the Zuhair Hijjawi Award for Graduation Projects of Bachelors Students in Palestinian Universities (4 years).
<ul> <li>Date: 2014 –2016</li> </ul>	Active Participation to get External Funding for Several Research Projects (Palestinian Council of Scientific Research, FAO, Union of Arab Universities, International Energy Agency).
• Date: (31/7-2/8/2016)	Member of the Preparatory Committee of the "Fifth Palestinian Conference on Modern Trends in Mathematics and Physics".
• Date: (21/3/2016)	Member of the Preparatory Committee "Fourth Conference on Biotechnology Research and its Applications in Palestine".
• Date: 2010 –2016	Member of International Association of Engineers (IAENG).

<ul> <li>Date: (01/09/2013)</li> </ul>	Member of the Committee Preparing the Bachelor Program of Networking and Information Security. (Submitted to Getting Accreditation).
Date: 09/2014-9/2016	Chairman of the Ethics Committee of Scientific Research.
■ Date: 9/2014 – 09/2016	Member of the Disciplinary Primary Council.
■ Date: 9/2011 – 09/2012	Member of AAUJ Research Council.
■ Date: 9/2010 – 09/2015	Member of AAUJ Disciplinary Council.
■ Date: 9/2011 – 09/2013	Member of Engineering and Information Technology Faculty Council.
■ Date: 9/2013 – 09/2014	Member of the Engineering and Information Technology Faculty Council.
■ Date: 07/2006 – 09/2012	Member of Arab American University Council.
Date: 09/2009-09/2010	Member of AAUJ Research Committee.
Date: 5/2009 –9/2009	Member of the Zuhair Hejawy Prize Committee.
<ul> <li>Date: 10/2006 – 10/2007</li> </ul>	Member of Group of Built the Strategic Plan for Arab American University.
■ Date: 10/2006 – 10/2008	Built the Plan for Computer System Engineering Program for AAUJ (which obtained accreditation in 2009).
■ Date: 9/2010 – 9/2012	Built the Plan of Master Computer Science for AAUJ. (which obtained accreditation in 2013).
<ul> <li>Date: 3/2006 – 7/2006</li> </ul>	Member of Group of Built the Plan of Telecommunication Engineering Program for AAUJ. (which obtained accreditation in 2007).
■ Date: 9/2007 - 8/2008	Supervisor of Labs Supervisors on the E& IT Faculty in AAUJ.
INTERESTS RESEARCH FIELD:	<ul> <li>Artificial Intelligence.</li> <li>Radial Basis Function Neural Networks.</li> <li>Complex Systems of Function Approximation.</li> <li>Hierarchic Structure for Function Approximation.</li> <li>Clustering Algorithms.</li> <li>Input Variable Selection.</li> <li>Fuzzy and Neuro-Fuzzy System.</li> <li>Genetic Algorithms and Particle Swarm Optimization.</li> <li>Time Series Prediction.</li> </ul>

#### **Teaching Courses:**

- Artificial Intelligence.(PhD Course)
- Advanced Artificial Intelligence (Master Course)
- Neural Networks (Master Course).
- Health Care Data Mining (Master Course).
- Health Information Technology (Master Course).
- Artificial Intelligence.
- Algorithms and Programming Techniques.
- Algorithms Analysis and Design.
- Data Structures.
- VHDL Programming.
- Theory of Computation.
- Advanced Digital System Design.
- Digital Logic Design.
- Intelligent Systems.
- Web Development.
- Digital Logic Design Lab.
- Introduction to Computers.
- Master Thesis Supervisor (*Master Course*).
- Seminar Supervisor.
- Senior Projects Supervisor

#### **PUBLICATIONS:**

1.	Haneen Qteat, <b>Mohammed Awad</b> , Using Hybrid Model of Particle Swarm Optimization
	Iournal of Intelligent Engineering and Systems (IIIES) Vol 14 No 3 2021
	DOI10.22266/ijies2021.0630.02
	Scopus Journals.
2.	Mohammad Zaid Alkelani, Mohammed Awad,"Prediction of Olive Oil Productivity
	using Machine Learning Decision Tree Algorithm" International Journal on
	Emerging Technologies 12(1): (2021) Scopus
2	Ahmed Ewais Mohammed Awad, Khetam Hadia "Aligning Learning Materials and
5.	Assessment with Course Learning Outcomes in MOOCs using Data Mining Techniques"
	Springer Volume "Advances in Integration of Intelligent Methods" Accepted Sept. 18
	2019. ISI Book Chapter
4.	Mohammed Awad, Alaeddin Alabdallah, "Addressing Imbalanced Classes Problem Of
	Intrusion Detection System Using Weighted Extreme Learning Machine". The
	International Journal of Computer Networks & Communications (IJCNC) ACCEPTED July 2019. Sconus Journals
<u>-</u>	
5.	Mohammed Awad, Mohammed Zaid-Alkelani, Prediction of Water Demand Using
	Intelligent Systems and Applications (IIISA) Vol 11 No 9 Sep 2019 PP 40-54
	Scopus Journals.
	Ocama Salamah Mohammad Awad Eadi Abu AlruhA "MARKOVIAN MODEL FOR
0.	INTERNET OF THINGS APPLICATION" The International Journal of Computer
	Networks & Communications (IJCNC), Vol.11, No.2, March 2019. PP: 113-124.
	Scopus Journals.
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7.	Ihab Hamdan, <b>Mohammed Awad</b> *, Walid Sabbah' "Short-Term Forecasting of Weather Conditions in Palestine Using Artificial Neural Networks", Journal of Theoretical and Applied Information Technology, Vol. 96 Issue 9, May 2018. PP.: 2494-2504. Scopus Journals
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