

Curriculum Vitae



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PERSONAL DATA:

Place of Birth : Iraq

Date of Birth : 20-7-1962

Nationality : Iraqi.

Linguistic Abilities: Arabic & English.

RESEARCH INTERESTS

- Computer Simulation with Adaptation.
- Parallel Algorithms.
- Hybrid Soft Computing uses (Neural Network and Genetic Algorithm, ACO, PSO,... etc.)
- Image and Sound Processing.
- Computer Security (Steganography).

EDUCATION

- **Ph.D. in Computer Science (1993-1997)**, (Computer Simulation with Adaptation using Multiprocessors) by Courses (one year) and Thesis. The title of the thesis is: "*Computer Simulation of Viscous Flow in Double Step Channels Using FEM on Adaptive Mesh and Multiprocessors*". Computer Science Dept., Basrah University, Iraq, October 1997.
- **M.Sc. in Computer Science (1986-1988)**, Computer Simulation- By Courses (one year) and Thesis. The title of the thesis is: "*Computer Simulation of Fluid Flow through a Channel*", Computer Science Dept., Basrah University, Iraq, December 1988.
- **B.Sc. in Computer Science (1980-1985)** Computer Science Dept., Basrah University, Iraq, June 1985.

EXPERIENCE (28 Years)

2009 - Present date: The Deputy Dean of IT faculty, and the head of Computer Science Department. Associate Professor in Computer Science/Graduate Studies, Faculty of Information Technology, Philadelphia University / Jordan.

2008-2009: The Deputy Dean of IT faculty, and the head of Computer Science Department. Assistant Professor in Computer Science/Graduate Studies, Faculty of Information Technology, Philadelphia University / Jordan.

2007-2008: Head of Computer Science Department, Faculty of IT, Philadelphia University. Assistant professor in Computer Science Department, Faculty of Information Technology, Philadelphia University / Jordan.

2001-2007: Assistant Professor in Applied Computer Science Faculty of Information Technology, Philadelphia University / Jordan.

2001-2003: Assistant Dean, Faculty of Science, Philadelphia University / Jordan .

1998-2001: Assistant Professor in Computer Science and Information System Dept., Faculty of Science, Philadelphia University / Jordan.

1997-1998: Assistant Professor in Computer Science Dept. University of Basrah / Iraq.

1996-1997: Teacher in Computer Science Dept., University of Basrah / Iraq.

1989-1996: Assistant Teacher in Computer Science Dept., University of Basrah / Iraq.

1985-1986: Assistant Researcher and Assistant Lab. Computer Science Dept., University of Basrah / Iraq.

PUBLICATIONS

- Numerical Studies of Flow over a Backward-Facing Step Using FDM. *Technical Eng. J.* Vol.10, No. 4 :115-129 (1989).
- Direct In-Core Solution of Large Unsymmetrical System of Linear Equations. *Basra J. Science* Vol.11, No. 1:43-48 (1993).
- MTIDM Algorithm for Solution of a Large System of Linear Equations. *Basra J. Science* Vol. 15, No 1:49-56 (1997).
- Time analysis of parallel FE Problem on Multiprocessor System Using Modified Frontal Technique, *Philadelphia University conference of Recent Developments* pp 113-117 (1997).
- Numerical Study on Element Affecting the False Diffusion Error. *Basra J. Science*, Vol. 16, No. 1:56-63 (1998).
- Computer Simulation of the Parallel FEM Using Modified Frontal Technique *Philadelphia University Conference of Recent Developments* pp 107-112 (1997).
- Result Behavior in the Numerical Solution for Different Channels Geometric *Philadelphia University Conference on recent trends in Computer Science Applications & Information System* pp131-137 (1999).
- Reallocation of Mesh Points in Fluid Problems Using Back-Propagation Algorithm. *INFORMATION, an International Journal.* ISSN 1343-4500 Volume 9,

- No.1, pp. 175-184, (2006).
- Hiding a Large Amount of Data with High Security Using Steganography Algorithm *Journal of Computer Science*, 3 (4): 223-232, pp. 223-232, (2007) ISSN 1549-3636.
 - Embedded a Large Amount of Information Using High Secure Neural Based Steganography Algorithm, *International Journal of Information and Communication Engineering*, 4(2) 95-106, (2008) World Academy of Science, Engineering and Technology, ISSN 2010-4049
 - Computing an Adaptive Mesh in Fluid Problems using Neural Network and Genetic Algorithm with Adaptive Relaxation, *International Journal on Artificial Intelligence Tools* (World Scientific) Vol. 17, No. 6 (2008) 1089-1108 ISSN 0218-2130(Supported by Cambridge University).
 - Computing of Compressible Flow Using Neural Network Based-on Dual-Level Clustering: *Journal of Applied Sciences* Vol. 9, No. 14 (2009) 14 2501-2518. (Supported by Cambridge University).
 - Computing an Incompressible Viscous Fluid Flow Using Neural Network Based on Modified Adaptive Smoothing Errors, *INFORMATION, an International Journal*. 13(4), 2010 ISSN 1343-4500. (with Cambridge university-IfM)
 - An intelligent computing technique for fluid flow problems using hybrid adaptive neural network and genetic algorithm. *Applied Soft Computing*, 11 (2011) 3283–3296 Elsevier ISSN: 1568-4946 . (with Cambridge university-IfM)
 - New Steganography Algorithm to Conceal a Large Amount of Secret Message Using Hybrid Adaptive Neural Networks with Modified Adaptive Genetic Algorithm, *Journal of System and Software*, 86(6), 2013 Elsevier, ISSN: 0164-1212., (Supported by Cambridge University)

PAPERS FORWARDED TO JOURNALS

- New Data Hiding Algorithm Based on Adaptive Neural Networks with Modified Particle Swarm Optimization, submitted to *Journal of System and Software*, Elsevier, ISSN: 0164-1212. (2013) (Supported by Cambridge University).
- Improved Steganographic Security Based on Irregular Image Segmentation Using Modified Finite Elements Method and Hybrid Adaptive Neural Networks with Multiple Ant Colonies Optimization, submitted to *Journal of Digital Signal Processing*, Elsevier, ISSN: 1051-2004. (2013)

CONFERENCES, SYMPOSIUMS, SEMINARS &WORKSHOPS:

More than 30 Conferences, Symposiums, Seminars &Workshops from 1990 up-to-date.

INVITED SPEAKER

- EPS Montreal International Gene Conference to be held November 3-4, 2011 in Montreal, Quebec, Canada.
- The EPS 2012 International Physiology Conference will take place during March 5-6, 2012 in Istanbul, Turkey.
- 2012 EPS Torino International Conference on Immunology, Allergy & Translational Medicine Torino, Italy, April 20-21, 2012

CONFERENCES ORGANISATION:

- Member of the Program and Organizing Committee (4th conference of Philadelphia University).
- Member of the Program and Organizing Committee (ISIICT' 2002 Philadelphia University)
- Member of the Program and Organizing Committee (IEEE ISIICT' 2007 Philadelphia University)
- Member of the Program and Organizing Committee (IEEE ISIICT' 2011 Philadelphia University)

CULTURAL, AND ACADEMIC ACTIVITIES AND BOARDS

- Member of Editorial Board of Artificial Intelligence Research Journal- Canada.
- Member of Editorial Board of RVJ-ITAJournal- USA.
- Reviewer in the Journal of Applied Soft Computing, Elsevier (Thomson Reuters)
- Reviewer in the Journal Of Systems And Software, Elsevier (Thomson Reuters)
- Reviewer in the Optics Communications journal, Elsevier(Thomson Reuters)
- Reviewer in the Digital Signal Processing journal, Elsevier Thomson Reuters
- Reviewer in the Computational Intelligence, An International Journal - Blackwell Publishing / USA. (Thomson Reuters)
- Reviewer in European Transactions on Telecommunication Journal, John Willey.
- Reviewer in Journal of King Saud University - Computer and Information Sciences, Elsevier (Thomson Reuters)
- Reviewer in IAJIT journal. (Thomson Reuters)
- Reviewer in the International Journal of Computers and Applications-ACTA Press / Canada
- Reviewer in the International Journal of Emerging Technologies in Learning (iJET)/ Austria
- Reviewer in the International Journal of Online Engineering (iJOE))/ Austria
- Reviewer in the International Journal of Interactive Mobile Technologies (iJIM))/ Austria
- Reviewer in the International Journal of Advanced Corporate Learning (iJAC))/ Austria
- Reviewer in the Basra Journal of Science, Basra University / IRAQ.
- Member of referees committee in the ACIT 2000 Conference Referee, Zarka University.
- Member of referees committee in the ACIT 2001 Conference Referee, JUST.
- Member of referees committee in the ISIICT' 2002 Conference Referee, Philadelphia University.
- Member of referees committee of the 2nd International Multi-Conference on Engineering and Technological Innovation: IMETI 2009-USA
- Member of referees committee of the IEEE ISIICT' 2009 Conference, Philadelphia University.
- Member of referees committee in the ISIICT' 2011 Conference IEEE sponsor, Philadelphia University.
- Member of referees committee in the ISWSA2010 ACM sponsor, Isra University.
- Member of referees committee in the ISWSA2011 ACM sponsor, Isra University.
- Member of referees committee in the 12th annual Middle Eastern

Simulation and Modeling (MESM'2011) IEEE and EUROSIS, Arab Open University.

- Member of referees committee in the 2nd annual GAMEON-ARABIA Conference (GAMEON-ARABIA'2011), IEEE and EUROSIS sponsor, Arab Open University.
- Member of the Technical Committee of CSIT213 Applied Science University, Amman, Jordan.
- Member of referees committee in the International Conference on E-Learning and Blended Education as a Strategic Choice For Arab Universities "ICELBE 2012"
- Member of referees committee in the ISIICT' 2014 Conference IEEE sponsor, Philadelphia University.

MEMBERSHIP OF COMMITTEES

- Scientist in the Queen Rania Center for Entrepreneurship (QRCE)
- Chair of Faculty QA Committee (2008-2012).
- Chair of Faculty Special Accreditation Committee (2011-1012)
- Chair of the Departmental Scientific Committee (2007-2012).
- Chair of Faculty Graduate Committee (2007-2012).
- Chair of Faculty Study Plan Committee (2003-2012).
- Chair of Faculty Website Committee (2008-2012).
- Member of University Website Committee (2008-2012).
- Chair of Faculty Research Project Committee (2003-2006).
- Chair of Departmental Examination Committee (1990-1997).
- Member of Departmental Scientific Committee (1996-1997).
- Chair of Faculty Study timetable Committee (2000-2004; 2008-2012)
- Member of Faculty Curriculum development committee (2002-2003; 2007-2012)
- Chair of CS-Departmental Curriculum development committee (2002-2003; 2007-2012).
- Chair of Faculty Appointment Committee (2011-2012)

MASTER THESIS EXAMINATION AND SUPERVISION :

More than 20 thesis.

BSC PROJECT SUPERVISION

More than 30 thesis.

TEACHING(1985 – 2012):

- Introduction to Computer Science.
- Computation Theory.
- File Organization and Data Processing.
- Computer Graphics.
- Numerical Solution of PDE.
- Fortran 77, VFortran
- GPSS language
- ADA Programming language
- Symbolic Programming (Visual PROLOG)
- Functional Programming (LISP)

- Assembly Language (Z80,86, Intel 8086,....)
- Object Oriented Paradigm (OOP).
- Window Programming using VC# .NET (Console, Window, and Web) applications, ASP.Net.
- Visual programming Using VC++ 6, VC++ .Net.
- Pascal programming language.
- GPSS programming language.
- JAVA (Applet, Application and Script)
- VBASIC V6, VB .Net
- Operating System (Principle and Design).
- Operation Research.
- Software Packages (DOS-WINDOWS-OFFICE-UNIX-INTERNET).
- Artificial Intelligence (AI).
- Numerical Analysis and Algorithm.
- Object Oriented Data Structure Using C++
- Compiler Constructors.
- Computer Modelling and Simulation.
- Visual Programming Concepts.
- Graphical User Interface (GUI).
- Software Construction and Evolution.
- Digital image processing using MATLAB.
- Advance programming.
- Undergraduate research project.
- Advance Numerical Simulation (*M.Sc. Course*).
- Postgraduate research projects (*M.Sc. Course*).
- Advance Operating System (*M.Sc. Course*).

AWARDS & MERITS:

- Science Faculty Honor Award for Outstanding Performance Students, Department of Computer Science, Basrah University, Iraq, 1981-1985.
- Teaching excellence award for the study year 1996-1997. Basrah University.
- Teaching excellence award for the study year 2000-2001. Philadelphia University.
- Al-Hussein Fund for Excellence Award, associated with the Quality Assurance Agency for Higher Education in the UK (2003).
- Certificate in “Resource Capacity Management in Con tract R&D”, Given from UNESCO, STEMARN, Arab Academic for Science (AAS). (2007)
- Certificate of recognition and appreciation of outstanding service in the Technical Committee of IAJIT journal as one of the most active reviewers during the year 2011.

REFERENCES:

- Dr. Riad H. Al-Rabeh, Cambridge University, UK.
- Prof. Janan Zaytoon. Reims University, France
- Prof. Said Ghoul, University of Philadelphia, Jordan.

PROFESSIONALS AFFILIATIONS:

- ACM
- IEEE
- Iraqi Society for Computer Science (ISCS)