

# Curriculum Vitae



## **Nameer N. EL-Emam**

Professor of Computer Science,  
Philadelphia University, Amman – Jordan,  
P. O. Box (1) Philadelphia, 19392

**Tel (Work):** +962-2-6374444 / Ext. 2575

**(Home):** +962-6-5540195

**Mobile:** +962-777-489308

**E-mail:** [Nemam@philadelphia.edu.jo](mailto:Nemam@philadelphia.edu.jo),

[n\\_ameer@hotmail.com](mailto:n_ameer@hotmail.com) \_

[nn\\_ameer@yahoo.com](mailto:nn_ameer@yahoo.com)

**Home page:** [www.philadelphia.edu.jo/academics/nemam](http://www.philadelphia.edu.jo/academics/nemam)

**ResearchGate:** [https://www.researchgate.net/profile/Nameer\\_EL-Emam](https://www.researchgate.net/profile/Nameer_EL-Emam)

**LinkedIn:** <https://www.linkedin.com/in/nameer-el-emam-9a144b3a>

**Google Scholar:** <https://scholar.google.com/citations?user=-grICt0AAAAJ>

## **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 (three years). The title of the thesis is: “ Computer Simulation of Viscous Flow in Double Step Channels Using FEM on Adaptive Mesh and Multiprocessors “.
- M.Sc. in Computer Science (1986-1988), Computer Simulation- By Courses (one year) and Thesis(one year). The title of the thesis is: “ Computer Simulation of Fluid Flow through a Channel “.
- B.Sc. in Computer Science (1980-1985) Computer Science.

## **ACADEMIC PROMOTIONS:**

- Teacher Assistance: 1/9/1985.
- Teacher : 1/2/1996.
- Assistant Professor : 8/11/1997.
- Associate Professor: 12/1/2010.
- Full Professor : 26/7/2016.

## **ACADEMIC EXPERIENCE (32 Years)**

### **2016–Present:**

Chair of Computer Science Department, Full Professor of Computer Science, Faculty of Information Technology, Philadelphia University / Jordan.

### **2015-2016:**

Chair of Computer Science Department, Associate Professor of Computer Science, Faculty of Information Technology, Philadelphia University / Jordan.

### **2010-2015:**

Deputy Dean of IT faculty, and the Chair of Computer Science Department. Associate Professor of Computer Science/Graduate Studies, Faculty of Information Technology, Philadelphia University / Jordan.

### **2009-2010:**

Deputy Dean of IT faculty, and the Chair of Computer Science Department. Assistant Professor of Computer Science/Graduate Studies, Faculty of Information Technology, Philadelphia University / Jordan.

### **2008-2009:**

Deputy Dean of IT faculty, and the head of Computer Science Department. Assistant Professor of 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 of Computer Science Department, Faculty of Information Technology, Philadelphia University / Jordan.

### **2001-2007:**

Assistant Professor of Computer Science, Applied Computer Science Dept., Faculty of Information Technology, Philadelphia University / Jordan.

### **2001-2003:**

Assistant Professor of Computer Science, Assistant Dean, Computer Science and Information System Dept., Faculty of Science, Philadelphia University / Jordan.

### **1998-2001:**

Assistant Professor of Computer Science, Computer Science and Information System Dept., Faculty of Science, Philadelphia University / Jordan.

### **1997-1998:**

Assistant Professor of Computer Science, Computer Science Dept. University of Basra / Iraq.

### **1996-1997:**

Teacher of Computer Science, Computer Science Dept., University of Basra / Iraq.

### **1989-1996:**

Assistant Teacher of Computer Science, Computer Science Dept., University of Basra / Iraq.

### **1985-1986:**

Assistant Researcher and Assistant Lab. Computer Science Dept., University of Basra / Iraq.

## **SELECTED PUBLICATIONS IN COMPUTER SCIENCE JOURNALS AND PROCEEDINGS**

- Numerical Studies of Flow over a Backward-Facing Step Using FDM. Engineering & Technology Journal, ISSN 1681-6900, 10(4) :115-129 (1989).
- Direct In-Core Solution of Large Unsymmetrical System of Linear Equations. Basra J. Science, ISSN: 1814-0343 11(1), 43-48 (1993).
- MTIDM Algorithm for Solution of a Large System of Linear Equations. Basra J. Science, ISSN: 1814-0343. 15(1), 49-56 (1997).

- Time analysis of parallel FE Problem on Multiprocessor System Using Modified Frontal Technique, Philadelphia University Conference of Recent Developments, 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, 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, 131-137 (1999).
  - Reallocation of Mesh Points in Fluid Problems Using Back-Propagation Algorithm. INFORMATION, an International Journal. ISSN 1343-4500 Volume 9, No.1, 175-184, (2006). (SCOPUS, ERA)  
<http://ondemand.bl.uk/onDemand/itemDetails/show/ETOCRN183762320>
  - Hiding a Large Amount of Data with High Security Using Steganography Algorithm, Journal of Computer Science, 3 (4): 223-232, 223-232, (2007), ISSN 1549-3636. (SCOPUS, ERA)  
<http://thescipub.com/html/10.3844/jcssp.2007.223.232>
  - Embedding a Large Amount of Information Using High Secure Neural Based Steganography Algorithm, International Journal of Computer, Electrical, Automation, Control and Information Engineering, 2 (11), 3806 - 3817, (2008), World Academy of Science, Engineering and Technology, ISSN 2010-4049. (SCOPUS, ERA)  
<http://waset.org/publications/6054/embedding-a-large-amount-of-information-using-high-secure-neural-based-steganography-algorithm>
  - 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). (SCOPUS, ISI, SCIE, JCR, ERA).  
<http://www.worldscientific.com/doi/abs/10.1142/S021821300800431X>
  - Computing of Compressible Flow Using Neural Network Based-on Dual-Level Clustering: Journal of Applied Sciences Vol. 9, No. 14 (2009), 2501-2518, ISSN: 1812-5654 (Supported by Cambridge University). (SCOPUS, ERA).  
<http://scialert.net/fulltext/?doi=jas.2009.2501.2518>
- 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 and supported by Philadelphia University). (SCOPUS, ERA).  
<http://ondemand.bl.uk/onDemand/itemDetails/show/ETOCRN281462244>

An intelligent computing technique for fluid flow problems using hybrid adaptive neural network and genetic algorithm. Applied Soft Computing, 11(4), (2011), 3283–3296, Elsevier, ISSN: 1568-4946. (with Cambridge university-IfM) . (SCOPUS, ISI, SCI, JCR, ERA).

<http://www.sciencedirect.com/science/article/pii/S1568494609002634>

- 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). (SCOPUS, ISI, SCI, JCR, ERA)  
<http://www.sciencedirect.com/science/article/pii/S0164121212003317>
- A New Image Steganography Algorithm Based On MLSB Method With Random Pixels Selection, International Journal of Network Security & Its Applications (IJNSA) 7(2), March (2015), ISSN:0975 – 2307, (Supported by Philadelphia University). (ERA)  
<http://airccse.org/journal/nsa/7215nsa03.pdf>
- New Data-Hiding Algorithm Based on Adaptive Neural Networks with Modified Particle Swarm Optimization, Computers & Security Journal, 55, 21–45, (2015), Elsevier, ISSN: 0167-4048. (Supported by Cambridge University). (SCOPUS, ISI, SCI, JCR, ERA)  
<http://www.sciencedirect.com/science/article/pii/S016740481500098X>
- A Novel Algorithm for Colour Image Steganography Using a New Intelligent Technique Based on Three Phases, Applied soft Computing Journal, 37, 830–846, (2015), Elsevier, ISSN: 1568-4946, (Supported by Cambridge University). (SCOPUS, ISI, SCI, JCR, ERA)  
<http://www.sciencedirect.com/science/article/pii/S1568494615005700>
- Improved Steganographic Security by Applying an Irregular Image Segmentation and Hybrid Adaptive Neural Networks with Modified Ant Colony Optimization, International Journal of Network Security & Its Applications (IJNSA) 7(5), September 2015, ISSN 0975-2307 (Supported by Warwick University.) (ERA)  
<http://airccse.org/journal/nsa/7515nsa02.pdf>
- Elastic Neural Network Method for Load Prediction in Cloud Computing Grid, (Submitted in 2017).

### **CONFERENCES, SYMPOSIUMS, SEMINARS & WORKSHOPS:**

More than 30 Conferences, Symposia, Seminars & Workshops from 1990 till now.

### **SELECTED OF INVITED SPEAKER**

- The 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.
- The EPS Torino International Conference on Immunology, Allergy & Translational Medicine Torino, Italy, April 20-21, 2012
- Invitation to attend the Elsevier Reviewer Reception, San Antonio, Texas, USA, March (2015).
- Keynote Speaker and TPC Member of the International Conference on Computer Science and

Information Engineering, Ningbo, China, October, (2015).

- Keynote Speaker and TPC Member of the International Conference on Social Science and Human Development (SSH2016) , Shenzhen, China, July, (2016).
- Keynote Speaker and TPC Member of the International conference on Artificial Intelligence Science and Technology [AIST2016] July, (2016), Shanghai, China.

#### **EXTERNAL REVIEWER AND MEMBER OF EDITORIAL BOARDS**

- External reviewer for the academic programs in the faculty of Computing and IT, Sohar University- Oman.
- Artificial Intelligence Research Journal- Canada.
- International Journal of Computation and Applied Sciences (IJOCAAS), UK.
- Rising Vision Products (RVJ-ITA) Journal- USA.
- MCS Journal- Kufa University.
- Engineering, Computing, Sciences & Technology, Journals, Asian Transactions.
- International Journal of Network Security & Its Applications (IJNSA)
- Consult Committee, Basra Journal of Science.

#### **MEMBER OF REVIEW COMMITTEES (SELECTED JOURNALS)**

<http://www.reviewerpage.com/Nameer-EL-Emam>

- IEEE Signal Processing Letters Journal , IEEE, (SCOPUS, ISI, SCI, JCR, ERA).
- ASOC: Applied Soft Computing, Elsevier, (SCOPUS, ISI, SCI, JCR, ERA).
- JSS: Journal of Systems and Software, Elsevier, (SCOPUS, ISI, SCI, JCR, ERA).
- OPTICS: Optics Communications, Elsevier, (SCOPUS, ISI, SCI, JCR, ERA).
- DSP: Digital Signal Processing, Elsevier, (SCOPUS, ISI, SCI, JCR, ERA).
- PR: Pattern Recognition, Elsevier, (SCOPUS, ISI, SCI, JCR, ERA).
- JVCI: Journal of Visual Communication and Image Representation, Elsevier, (SCOPUS, ISI, SCI, JCR, ERA).
- Computational Intelligence journal, An International Journal - Blackwell Publisher, USA, (SCOPUS, ISI, SCI, JCR, ERA).
- European Transactions on Telecommunication Journal, John Willey Publisher, USA, (SCOPUS, ISI, SCI, JCR, ERA).
- Computer Engineering & Information Technology Journal, SciTechnol Publisher, USA, (SCOPUS, ISI, SCI, JCR, ERA).
- JKU-CIS: Journal of King Saud University - Computer and Information Sciences, Elsevier, (SCOPUS, ISI, SCI, JCR, ERA).
- Security and Communication Networks Journal, John Willey Publisher, (SCOPUS, ISI, SCI, JCR, ERA).
- IJLEO: Optik – International Journal for Light and Electron Optics, Elsevier, (SCOPUS, ISI, SCI, JCR, ERA).
- JWS: Journal of Web Semantics, Elsevier, (SCOPUS, ISI, SCI, JCR, ERA).
- Information Security Journal: A Global Perspective, Taylor & Francis journals, (ACM, CSA, SCOPUS, ERA).
- International Arab journal information technology (IAJIT), (SCOPUS, ISI, SCI, JCR, ERA).
- International Journal of Computers and Applications-ACTA Press / Canada, (SCOPUS, ERA).
- International Journal of Emerging Technologies in Learning (iJET)/ Austria, (SCOPUS, ERA).
- International Journal of Online Engineering (iJOE) / Austria, (SCOPUS, ERA).
- International Journal of Interactive Mobile Technologies (iJIM) / Austria, (SCOPUS, ERA).
- International Journal of Advanced Corporate Learning (iJAC) / Austria, (SCOPUS, ERA).

- Basra Journal of Science, Basra University / IRAQ., (SCOPUS).

#### **MEMBER OF TECHNICAL COMMITTEES (SELECTED CONFERENCES)**

- The International Arab Conference on Information Technology ACIT2000 Conference Referee, Zarka University.
- The International Arab Conference on Information Technology ACIT2001 Conference Referee, JUST.
- The First International Symposium on Innovation in Information and Communication Technology, ISIICT'2002 Conference Referee, Philadelphia University.
- The Second International Symposium on Innovation in Information and Communication Technology, ISIICT'2004 Conference Referee, Philadelphia University.
- 2007 ACS/IEEE International Conference on Computer Systems and Applications, AICCSA '2007.
- The Third International Symposium on Innovation in Information and Communication Technology, ISIICT'2009 Conference Referee, Philadelphia University.
- The Fourth International Symposium on Innovation in Information and Communication Technology, ISIICT'2011 Conference Referee, Philadelphia University.
- The 2nd International Multi-Conference on Engineering and Technological Innovation: IMETI 2009-USA.
- The IEEE ISIICT'2009 Conference, Philadelphia University.
- ISIICT' 2011 Conference, IEEE sponsor, Philadelphia University.
- ISWSA2010 ACM sponsor, Isra University.
- ISWSA2011 ACM sponsor, Isra University.
- The 12th annual Middle Eastern Simulation and Modeling (MESM'2011) IEEE and EUROSIS, Arab Open University.
- The 2nd annual GAMEON-ARABIA Conference (GAMEON-ARABIA'2011), IEEE and EUROSIS sponsor, Arab Open University.
- CSIT213 Applied Science University, Amman, Jordan.
- International Conference on E-Learning and Blended Education as a Strategic Choice For Arab Universities "ICELBE 2012" .

#### **MEMBER OF ORGANISATION COMMITTEES (CONFERENCES):**

- 4<sup>th</sup> conference of Philadelphia University.
- ISIICT' 2002 Philadelphia University.
- IEEE ISIICT' 2007 Philadelphia University.
- IEEE ISIICT' 2011 Philadelphia University.

#### **MEMBERSHIP OF LOCAL COMMITTEES**

- Scientist in the Queen Rania Center for Entrepreneurship (QRCE).
- Chair of Faculty QA Committee (2008-2017).
- Chair of Faculty Special Accreditation Committee (2011-1017).
- Chair of the Departmental Scientific Committee (2007-2017).
- Chair of Faculty Graduate Committee (2007-2017).
- Chair of Faculty Study Plan Committee (2003-2017).
- Chair of Faculty Website Committee (2008-2017).
- Member of University Website Committee (2008-2017).
- 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; 2008-2017) .
- Member of Faculty Curriculum development committee (2002-2003; 2007-2017).

- Chair of CS-Departmental Curriculum development committee (2002-2003; 2007-2017).
- Chair of Faculty Appointment Committee (2011-2017).

### **MASTER THESIS SUPERVISION AND EXAMINATION:**

More than 20 theses.

### **BSC PROJECT SUPERVISION**

More than 30 Projects.

### **TEACHING AND SUPERVISION (1985 – 2010):**

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),

### **TEACHING AND SUPERVISION (2010 – 2017):**

- Advanced Operating System (M.Sc. Course).
- Supervision of MSc. Thesis (One Student).
- Research Project, (BSc. Course).
- Modeling and Simulation. (BSc. Course).
- Operating System (BSc. Course).
- Computation Theory (BSc. Course).

### **AWARDS & MERITS:**

- Science Faculty Honor Award for Outstanding Performance Students, Department of Computer Science, Basra University, Iraq, 1981-1985.
- Teaching excellence award for the study year 1996-1997. Basra University.
- Teaching excellence award for the study year 2000-2001. Philadelphia University.  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/Teaching%20certificate.pdf>
- Al-Hussein Fund for Excellence Award, associated with the Quality Assurance Agency for Higher Education in the UK (2003).  
[http://www.philadelphia.edu.jo/academics/nemam/uploads/SKMBT\\_C25207112414120.jpg](http://www.philadelphia.edu.jo/academics/nemam/uploads/SKMBT_C25207112414120.jpg)
- Certificate in “Resource Capacity Management in Con tract R&D”, Given from UNESCO, STEMARN, Arab Academic for Science (AAS). (2007).  
[http://www.philadelphia.edu.jo/academics/nemam/uploads/SKMBT\\_C25207112414103.jpg](http://www.philadelphia.edu.jo/academics/nemam/uploads/SKMBT_C25207112414103.jpg)
- 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.

<http://www.philadelphia.edu.jo/academics/nemam/uploads/Certificate%20of%20Recognition%20from%20IAJIT.pdf>

- Certificate of reviewing, in recognition of the reviewing made for the Applied Soft Computing Journal (ASC), Elsevier publisher, March, 2014.  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/CertificateASC.pdf>
- Certificate of reviewing, in recognition of the reviewing made for the Applied Soft Computing Journal (ASC), Elsevier publisher, May 2016.  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/Certificate%20ASC3.pdf>
- Certificate of reviewing, in recognition of the reviewing made for the Journal of System and Software (JSS), Elsevier publisher, August, 2015.  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/Certificate-JSS.pdf>
- Certificate of reviewing, in recognition of the reviewing made for the Journal of Digital Signal Processing (DSP), Elsevier publisher, May 2014.  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/Certificate%20DSP.pdf>
- Certificate of reviewing, in recognition of the reviewing made for the Journal of Digital Signal Processing (DSP), Elsevier publisher, May 2016.  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/Certificate%20DSP2.pdf>
- Certificate of outstanding contribution in reviewing, in recognition of the contributions made to the quality of the Applied Soft Computing Journal (ASC), Elsevier publisher, November, 2015.  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/Certificate%20ASC2.pdf>
- Certificate of outstanding contribution in reviewing, in recognition of the contributions made to the quality of the Journal of System and Software (JSS), Elsevier publisher, November, 2015.  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/CertificateJSS2.pdf>
- Certificate of recognition and appreciation of outstanding service in the Journal of KING SAUD UNIVERSITY - COMPUTER AND INFORMATION SCIENCES (JKSU-CIS) –Elsevier publisher during the year (2016).  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/Certificate%20JKSU-CIS2.pdf>
- Certificate of outstanding contribution in reviewing, in recognition of the contributions made to the quality of the Digital Signal Processing Journal (DSP), Elsevier publisher, November, 2016.  
<http://www.philadelphia.edu.jo/academics/nemam/uploads/Certificate%20DSP3.pdf>

#### **REFERENCES:**

- Prof. Riadh H. Al-Rabeh, Cambridge University, UK.
- Prof. Janan Zaytoon. Reims University, France.
- Prof. Mohamed Bettaz, University of Philadelphia, Jordan.
- Prof. Said Ghoul, University of Philadelphia, Jordan.

#### **PROFESSIONALS AFFILIATIONS:**

- ACM Computer Society Members.
- IEEE Computer Society Members.
- World Federation on Soft Computing (WFSC).



- Iraqi Society for Computer Science (ISCS).
- Member of the following international professional groups:
  - Cloud Computing.
  - Information Security Network.
  - Mobile App Design, Development & Promotion ( Android, iPhone).
  - Python Community.
  - Simulation Driven Engineering.
  - Algorithmic Trading.
  - Cloud Security Alliance.
  - .Net Professionals.
  - Computer Vision and Pattern Recognition.
  - Data Hiding.
  - Developer Tech - HTML5, Android, iOS, Windows, Java, BlackBerry, Developers.
  - Event Planning & Event Management - the 1st Group for Event Professionals.
  - Information Security Community.
  - IT Core Infrastructure.
  - Java Developers.
  - Microsoft Developers.
  - " HORIZON 2020 " Framework Programme for Research & Innovation.
  - Elsevier Computer Science.