

## السيرة الذاتية

### عماد عيسى عبد الكريم علي

الجامعة المستنصرية – كلية التربية

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#### ملخص تعريفي:

الاسم : عماد عيسى عبد الكريم

الجنس: ذكر

تاريخ الميلاد: 21/7/1972

الجنسية: عراقية

الحالة الاجتماعية: متزوج

عنوان السكن الدائم: مدينة بسماية السكنية – بغداد - العراق

#### الشهادات الدراسية:

1990-1994 : بكالوريوس علوم حاسبات / كلية العلوم / قسم علوم الحاسبات / جامعة بغداد  
1998-2001 : ماجستير علوم حاسبات / ذكاء اصطناعي/ معهد الدراسات العليا للحاسوب والمعلوماتية / المركز القومي للحاسبات / بغداد/ العراق  
2007-2012 : دكتوراة علوم الحاسبات/ كلية علوم الحاسبات / تقنيات النظم الذكية / جامعة العلوم الماليزية USM

#### الخبرة الأكاديمية والتدريس:

- |                  |   |
|------------------|---|
| 1994 to 2001     | قسم علوم الحاسوب، جامعة المستنصرية، بغداد، العراق.<br>مبرمج ومسؤول مختبر<br><u>المسؤوليات</u> : تدريس طلاب الكمبيوتر الدراسات الأولية في لغات البرمجة.  |
| 2001 to 2007     | قسم علوم الحاسوب، جامعة المستنصرية، بغداد، العراق.<br>تدريسي،<br><u>المسؤوليات</u> : تدريس طلاب الدراسات الأولية في تكنولوجيا الكمبيوتر والذكاء الاصطناعية وهيكلة البيانات.   |
| 2007 to 2012     | كلية علوم الحاسبات ، جامعة العلوم الماليزية USM، بينانغ، ماليزيا.<br>تدريسي من خلال برنامج الزمالة لجامعة العلوم الماليزية USM<br><u>المسؤوليات</u> : مدرس طلاب الكمبيوتر المرحلة الجامعية في تصميم وتحليل الخوارزميات، الرسم البياني للكمبيوتر، المعالج الدقيق.  |
| 2012 to 2016     | قسم علوم الحاسوب، جامعة المستنصرية، بغداد، العراق.<br>تدريسي<br><u>المسؤوليات</u> : تدريس طلاب الدراسات الأولية في هيكل البيانات ومعالجة الصور. بالإضافة إلى ذلك، طلاب الدراسات العليا في الوسائط المتعددة الرقمية، تعدين البيانات والذكاء الاصطناعي، بالإضافة إلى الإشراف على العديد من طلاب قسم علوم الحاسبات في الدراسات العليا. |
| 2016 to 2018     | قسم علوم الحاسوب، جامعة المستنصرية، بغداد، العراق.<br><u>المسؤوليات</u> : رئيس قسم علوم الحاسبات.   |
| 2018 الى حد الان | قسم علوم الحاسوب، جامعة المستنصرية، بغداد، العراق.<br>تدريسي،   |

**المسؤوليات:** تدريس طلاب الدراسات الاولية في هيكل البيانات ومعالجة الصور. بالإضافة إلى ذلك، طلاب الدراسات العليا في الوسائط المتعددة الرقمية، تعدين البيانات والذكاء الاصطناعي، بالإضافة إلى أشرف على العديد من طلاب الدراسات العليا.

### **المقررات الدراسية التي تم تدريسها:**

#### **الدراسات العليا:**

1. Digital Multimedia.
2. Data Mining.
3. Advance Artificial Intelligent.

#### **الدراسات الاولية:**

1. programming languages
2. Artificial Intelligent
3. Computer technology
4. Data structure



### **الانتساب المهني او الجمعيات:**

- IEEE Transaction on neural network and Learning System (Impact Factor 4.37).
- Journal of Intelligent and Fuzzy Systems (Impact Factor 0.936).
- Iraqi Journal of Information Technology.
- Iraqi's Computer Society (ICS), Iraq.

### **المنشورات العلمية**

#### **مجلات ISI:**

1. Emad I Abdul Kareem, Wafaa A.H. Ali Alsalihiy and Aman Jantan (2012), "Multi-Connect Architecture (MCA) Associative Memory: A Modified Hopfield Neural Network", Intelligent Automation and Soft Computing, Vol. 18, No. 3, pp. 291-308, 2012 Copyright ©, TSI® Press Printed in the USA.

#### **مجلات ضمن تصنيف Scopus**

1. Emad I Abdul Kareem, Wafaa A.H. Ali Alsalihiy and Aman Jantan (2012), "Multi-Connect Architecture (MCA) Associative Memory: A Modified Hopfield Neural Network", Intelligent Automation and Soft Computing, Vol. 18, No. 3, pp. 291-308, 2012 Copyright ©, TSI® Press Printed in the USA.
2. Sattar, Rana Amer, and Emad Issa Abdul Kareem. "Intelligent Dietician System." Solid State Technology 63, no. 3 (2020): 3639-3655.
3. Mubarak, Ghassan Ahmed, and Emad Issa Abdul Kareem. "One Shoot In-Door Surveillance Module Based On MCA Associative Memory." In

1. Imad Issa Abd Al-Kaream, (2000) "Hopfield Neural Network Using Genetic Algorithm", M.Sc. thesis, High studies institute for computer and information, Iraq.
2. E. Kaream,( 2004) "Alternative Hopfield Neural Network With Multi-Connect Architecture", Journal of College of Education, Computer Department, Al-mustansiryah university, Baghdad, Iraq.
3. Emad I Abdul Kareem and Raad Mahdy (2004), "Detection Document for Authentication by Using Neural Network Technique " Scientific Journal in Al-Anbar University, Iraq.
4. Emad I Abdul Kareem (2005), "Alternative Hopfield Neural Network with Multi-connect Architecture " Scientific Journal in Al- Mustansiryah University, Iraq.
5. Emad I Abdul Kareem and Aman Jantan (2008), "New Array Structure Using Associative Memory Neural Network", IJCSNS International Journal of Computer Science and Network Security, VOL.8 No.5.
6. Emad I Abdul Kareem and Aman Jantan (2009), "An approach for monitoring pedestrian by using multi-connect architected MCA associative memory ", JDCTA: International Journal of Digital Content Technology and its Applications, Vol. 3, No. 2, pp. 75 ~ 82.
7. Emad I Abdul Kareem and Aman Jantan (2009), "Intelligent Traffic Light Video Monitoring Approach for Vehicles Using Multi-Connect Architecture Associative Memory", ISBN:978967-5417-48-1 proceeding, Symposium of fellowship, Penang, Malaysia 14-15.
8. Emad I Abdul Kareem, Aman Jantan (2011), "MCA: A Developed Associative Memory Using Multi-Connect Architecture", IJIP: International Journal of Intelligent Information Processing, Vol. 2, No. 1, pp. 49 ~ 62.
9. Emad I Abdul Kareem, Aman Jantan (2011), "An Intelligent Traffic Light Monitor System using an Adaptive Associative Memory", IJIPM: International Journal of Information Processing and Management, Vol. 2, No. 2, pp. 23 ~ 39.
10. Emad I Abdul Kareem and Salman M Salman (2013), "Cryptography Operation Using DNA Computing" Iraqi Journal of Information Technology, Baghdad, Iraq.
11. Emad I Abdul Kareem, Safana H. Abbas, Salman Mahmood Salman (2014)," Intelligent traffic light controller based on MCA associative memory" Science Journal of Circuits, Systems and Signal Processing (CSSP), Science Publication Group(Science PG).
12. Rusul Hussein Hasan, Emad I Abdul Kareem (2015), "An Image Processing Oriented Optical Mark Reader Based on Modify Multi-Connect Architecture MMCA" International Journal of Modern Trends in Engineering and Research (IJMTER), Volume 02, Issue 07, [July– 2015]  
ISSN (Online):2349–9745; ISSN (Print):2393-8161, Scientific Journal Impact Factor (SJIF) 1.711.

13. Rusul Hussein Hasan, Emad I Abdul Kareem (2014), "MODIFY MULTI-CONNECT ARCHITECTURE (MMCA) ASSOCIATIVE MEMORY", Integrated Journal of Engineering Research and Technology, Vol 2 (4) ISSN NO. 2348 – 6821.
14. Nisreen Abd Alhadi Jabr, Emad I Abdul Kareem (2015), "Modify Bidirectional Associative Memory (MBAM)", International Journal of Modern Trends in Engineering and Research (IJMTER), Volume 02, Issue 08, [August– 2015] ISSN (Online):2349–9745; ISSN (Print):2393- 8161, Scientific Journal Impact Factor (SJIF) 1.711.
15. Nisreen Abd Alhadi Jabr, Emad I Abdul Kareem (2016), "Novel Hetero-Associative Memory: A Modified Bidirectional Associative Memory", International Journal of Engineering Research and Advanced Technology (IJERAT) ISSN: 2454-6135 (Online) [Volume. 02 Issue.02, February-2016] Publication Impact Factor (PIF): 1.026.
16. Rusul Hussein Hasan, Nisreen Abd Alhadi Jabr , Emad I Abdul Kareem (2016), "Password Authentication Based On Modify Bidirectional Associative Memory (MBAM)", International Journal of Recent Trends in Engineering & Research (IJRTER) Volume 02, Issue 02; February – 2016 [ISSN:2455-1457].
17. Emad I. Abdul Kareem, Ayat Ismail Mejbel (2018), "Best Vehicles Flow Traffic Light Controller Module Based on Particle Swarm Optimization (PSO)", American Journal of Intelligent Systems, Vol. 8 No. 1, pp. 12-21. doi: 10.5923/j.ajis.20180801.03.
18. Emad I. Abdul Kareem, Farah Younus Safar (2018), "Intelligent Recommendation Module for Emergency Vehicles", International Journal of Traffic and Transportation Engineering, Vol. 7 No. 3, pp. 63-69. doi: 10.5923/j.ijtte.20180703.03.
19. Emad Issa Abdul Kareem, Ayat Ismail Mejbel (2018), "Traffic Light Controller Module Based on Particle Swarm Optimization (PSO)", American Journal of Artificial Intelligence. Vol. 2, No. 1, pp. 7-15. doi: 10.11648/j.ajai.20180201.12.
20. safar, farah younus, & Kareem, E. I. A. (2018). "Intelligent Recommendation module for more than one emergency vehicles node to destination node". International Journal of Scientific Research and Management, 6(12), EC-2018. <https://doi.org/10.18535/ijstrm/v6i12.ec01>.

تطوير المهارات:

مؤتمرات عالمية

1. K. N. Mutter, I. I. Abdul Kareem and H. A. Moussa, (2006) "Gray Image Recognition Using Hopfield Neural Network With Multi-Bitplane and Multi-Connect Architecture," International Conference on Computer Graphics, Imaging and Visualisation (CGIV'06), Sydney, Qld., pp. 236-242, doi: 10.1109/CGIV.2006.49.
2. Emad I Abdul Kareem and Aman Jantan (2008), "Intelligent Traffic Light Control Using Neural Network with Multi-Connect Architecture", National Conference on Information Retrieval and Knowledge Management (CAMP08) in Kuala Lumpur, Malaysia.

مؤتمرات محلية

1. Emad I Abdul Kareem (2013), "A Novel Technique for Intelligent Traffic Light Controller Using a Modified Associative Memory", conference of collage of education, Baghdad, Iraq.
2. G. A. Mubarak and E. I. Abdul Kareem (2019), "One Shoot In-Door Surveillance Module Based On MCA Associative Memory," 2019 First International Conference of Computer and Applied Sciences (CAS), Baghdad, Iraq, pp. 1-5, doi: 10.1109/CAS47993.2019.9075724.



## Curriculum Vitae

# Emad I Abdul Kareem

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### PERSONAL SUMMARY:

Name : Emad I Abdul Kareem  
Gender : Male  
Date of Birth : 21/7/1972  
IC No. : 140408-12-1440  
Nationality : Iraqi  
Marital Status : Married  
Permanent Address : Dream City / Bismayah / Baghdad / Iraq  
Address : Block A / A3-301-301



### EDUCATION:

- 1990 to 1994 B.Sc. In Computer Science, Baghdad University, Collage of Science, Computer Dept. Baghdad, Iraq.
- 1998 to 2001 M.Sc. In Computer Science, Iraqi Commission for Computers and Informatics, Informatics Institute for postgraduate studies Baghdad, Iraq.
- 2007 to 2012 Ph.D. in school of computer science, USM University, Penang, Malaysia.

### ACADEMIC HONORS AND AWARDS:

- 1994 to 2001 Computer science Dept., Al-Mustansiriyah University, Baghdad, Iraq.  
**Teacher assistant,**  
**Responsibilities:** Instructor of undergraduate computer students in programming languages.
- 2001 to 2007 Computer science Dept., Al-Mustansiriyah University, Baghdad, Iraq.  
**Lecturer,**  
**Responsibilities:** Instructor of undergraduate computer students in Artificial Intelligent, Computer technology and Data structure.
- 2007 to 2012 School of Computer Science, Universiti Sains Malaysia USM, Penang, Malaysia.  
**Teacher assistant under fellowship scheme.**  
**Responsibilities:** Instructor of undergraduate computer students in Design & Analysis of Algorithms, computer graph, Microprocessor.
- 2012 until 2016 Computer science Dept., Al-Mustansiriyah University, Baghdad, Iraq.  
**Lecturer,**  
**Responsibilities:** Instructor of undergraduate computer students in Data structure and Image processing. In addition, for postgraduate computer students in Digital Multimedia, Data Mining and Advance Artificial Intelligent, as well as supervised many postgraduate computer students.

2016 until 2018

Computer science Dept., Al-Mustansiriyah University, Baghdad, Iraq.

**Responsibilities:** Head of Computer Science Department.

2018 until now

Computer science Dept., Al-Mustansiriyah University, Baghdad, Iraq.

**Lecturer,**

**Responsibilities:** Instructor of undergraduate computer students in Data structure and Image processing. In addition, for postgraduate computer students in Digital Multimedia, Data Mining and Advance Artificial Intelligent, as well as supervised many postgraduate computer students.

### ACADEMIC /TEACHING EXPERIENCE:

I participated in many scientific and administrative committees, including committees at the ministerial and university levels. In addition to, the viva committees for postgraduate studies students (i.e. as a Chairman, Member or Supervisor) for both MSc. and PhD, in most Iraqi universities. One of the master's theses in title 'Intelligent Recommendation Module for Emergency Vehicles', which I supervised, was registered in a Republic of Iraq / Ministry of Culture / National Center for Protection of Copyright and Related Rights.

### COURSES TAUGHT:

Undergraduate	Graduate
1. programming languages.	1. Digital Multimedia.
2. Artificial Intelligent.	2. Data Mining.
3. Computer technology.	3. Advance Artificial Intelligent.
4. Data structure.	

### PROFESSIONAL AFFILIATIONS:

- IEEE Transaction on neural network and Learning System (Impact Factor 4.37) as a reviewer.
- Journal of Intelligent and Fuzzy Systems (Impact Factor 0.936) as a reviewer.
- Iraqi Journal of Information Technology as a reviewer.
- Iraqi's Computer Society (ICS), Iraq.



### PUBLICATIONS:

#### *Journals*

#### *ISI Journal:*


1. Emad I Abdul Kareem, Wafaa A.H. Ali Alsalihi and Aman Jantan (2012), "Multi-Connect Architecture (MCA) Associative Memory: A Modified Hopfield Neural Network", Intelligent Automation and Soft Computing, Vol. 18, No. 3, pp. 291-308, 2012 Copyright ©, TSI® Press Printed in the USA.

#### *Index Scopus*

1. Emad I Abdul Kareem, Wafaa A.H. Ali Alsalihi and Aman Jantan (2012), "Multi-Connect Architecture (MCA) Associative Memory: A Modified Hopfield Neural Network", Intelligent Automation and Soft Computing, Vol. 18, No. 3, pp. 291-308, 2012 Copyright ©, TSI® Press Printed in the USA.

#### *Non-Index Journal*

1. Imad Issa Abd Al-Kaream, (2000) "Hopfield Neural Network Using Genetic Algorithm", M.Sc. thesis, High studies institute for computer and information, Iraq.
2. E. Kaream,( 2004) "Alternative Hopfield Neural Network With Multi-Connect Architecture", Journal of College of Education, Computer Department, Al-mustansiryah university, Baghdad, Iraq.

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3. Emad I Abdul Kareem and Raad Mahdy (2004), "Detection Document for Authentication by Using Neural Network Technique " Scientific Journal in Al-Anbar University, Iraq.
  4. Emad I Abdul Kareem (2005), "Alternative Hopfield Neural Network with Multi-connect Architecture " Scientific Journal in Al- Mustansiriyah University, Iraq.
  5. Emad I Abdul Kareem and Aman Jantan (2008), "New Array Structure Using Associative Memory Neural Network", IJCSNS International Journal of Computer Science and Network Security, VOL.8 No.5.
  6. Emad I Abdul Kareem and Aman Jantan (2009), "An approach for monitoring pedestrian by using multi-connect architected MCA associative memory ", JDCTA: International Journal of Digital Content Technology and its Applications, Vol. 3, No. 2, pp. 75 ~ 82.
  7. Emad I Abdul Kareem and Aman Jantan (2009), "Intelligent Traffic Light Video Monitoring Approach for Vehicles Using Multi-Connect Architecture Associative Memory", ISBN:978967-5417-48-1 proceeding, Symposium of fellowship, Penang, Malaysia 14-15.
  8. Emad I Abdul Kareem, Aman Jantan (2011), "MCA: A Developed Associative Memory Using Multi-Connect Architecture", IJIIP: International Journal of Intelligent Information Processing, Vol. 2, No. 1, pp. 49 ~ 62.
  9. Emad I Abdul Kareem, Aman Jantan (2011), "An Intelligent Traffic Light Monitor System using an Adaptive Associative Memory", IJIPM: International Journal of Information Processing and Management, Vol. 2, No. 2, pp. 23 ~ 39.
  10. Emad I Abdul Kareem and Salman M Salman (2013), "Cryptography Operation Using DNA Computing" Iraqi Journal of Information Technology, Baghdad, Iraq.
  11. Emad I Abdul Kareem, Safana H. Abbas, Salman Mahmood Salman (2014), " Intelligent traffic light controller based on MCA associative memory" Science Journal of Circuits, Systems and Signal Processing (CSSP), Science Publication Group(Science PG).
  12. Rusul Hussein Hasan, Emad I Abdul Kareem (2015), "An Image Processing Oriented Optical Mark Reader Based on Modify Multi-Connect Architecture MMCA" International Journal of Modern Trends in Engineering and Research (IJMTER), Volume 02, Issue 07, [July– 2015] ISSN (Online):2349–9745; ISSN (Print):2393-8161, Scientific Journal Impact Factor (SJIF) 1.711.
  13. Rusul Hussein Hasan, Emad I Abdul Kareem (2014), " MODIFY MULTI-CONNECT ARCHITECTURE (MMCA) ASSOCIATIVE MEMORY", Integrated Journal of Engineering Research and Technology, Vol 2 (4) ISSN NO. 2348 – 6821.
  14. Nisreen Abd Alhadi Jabr, Emad I Abdul Kareem (2015), "Modify Bidirectional Associative Memory (MBAM)", International Journal of Modern Trends in Engineering and Research (IJMTER), Volume 02, Issue 08, [August– 2015] ISSN (Online):2349–9745; ISSN (Print):2393-8161, Scientific Journal Impact Factor (SJIF) 1.711.
  15. Nisreen Abd Alhadi Jabr, Emad I Abdul Kareem (2016), " Novel Hetero-Associative Memory: A Modified Bidirectional Associative Memory", International Journal of Engineering Research and Advanced Technology (IJERAT) ISSN: 2454-6135 (Online) [Volume. 02 Issue.02, February-2016] Publication Impact Factor (PIF): 1.026.
  16. Rusul Hussein Hasan, Nisreen Abd Alhadi Jabr , Emad I Abdul Kareem (2016), " Password Authentication Based On Modify Bidirectional Associative Memory (MBAM)", International Journal of Recent Trends in Engineering & Research (IJRTER) Volume 02, Issue 02; February – 2016 [ISSN:2455-1457].
  17. Emad I. Abdul Kareem, Ayat Ismail Mejbel (2018), "Best Vehicles Flow Traffic Light Controller Module Based on Particle Swarm Optimization (PSO)", American Journal of Intelligent Systems, Vol. 8 No. 1, pp. 12-21. doi: 10.5923/j.ajis.20180801.03.
  18. Emad I. Abdul Kareem, Farah Younus Safar (2018), " Intelligent Recommendation Module for Emergency Vehicles", International Journal of Traffic and Transportation Engineering, Vol. 7 No. 3, pp. 63-69. doi: 10.5923/j.ijtte.20180703.03.
  19. Emad Issa Abdul Kareem, Ayat Ismail Mejbel (2018), "Traffic Light Controller Module Based on Particle Swarm Optimization (PSO)", American Journal of Artificial Intelligence. Vol. 2, No. 1, pp. 7-15. doi: 10.11648/j.ajai.20180201.12.
  20. safar, farah younus, & Kareem, E. I. A. (2018). "Intelligent Recommendation module for more than one emergency vehicles node to destination node". International Journal of Scientific Research and Management, 6(12), EC-2018. <https://doi.org/10.18535/ijstrm/v6i12.ec01>.



## PROFESSIONAL DEVELOPMENT

### International Conferences and Seminar

1. K. N. Mutter, I. I. Abdul Kareem and H. A. Moussa, (2006) "Gray Image Recognition Using Hopfield Neural Network With Multi-Bitplane and Multi-Connect Architecture," International Conference on Computer Graphics, Imaging and Visualisation (CGIV'06), Sydney, Qld., pp. 236-242, doi: 10.1109/CGIV.2006.49.
2. Emad I Abdul Kareem and Aman Jantan (2008), "Intelligent Traffic Light Control Using Neural Network with Multi-Connect Architecture", National Conference on Information Retrieval and Knowledge Management (CAMP08) in Kuala Lumpur, Malaysia.

### Local Conferences and Seminar

1. Emad I Abdul Kareem (2013), "A Novel Technique for Intelligent Traffic Light Controller Using a Modified Associative Memory", conference of collage of education, Baghdad, Iraq.
2. G. A. Mubarak and E. I. Abdul Kareem (2019), "One Shoot In-Door Surveillance Module Based On MCA Associative Memory," 2019 First International Conference of Computer and Applied Sciences (CAS), Baghdad, Iraq, pp. 1-5, doi: 10.1109/CAS47993.2019.9075724.

