

# Curriculum Vitae

Belal Al-Khateeb, BSc, MSc, PhD.

## Personal Details

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URL: <https://www.uoanbar.edu.iq/English/staff-page.php?ID=1672>

Nationality: Iraqi.

## University Education and Qualifications

- 1997-2000 BSc (Hons) First Class in Computer Science from Al-Nahrain University, College of Science.
- 2000-2002 MSc (Hons) awarded from the College of Science at Al-Nahrain University under the supervision of Dr. Venus W. Samawi and Dr. Taha S. Bashaga. Viva date: 28<sup>th</sup> Nov. 2002. Graduation date: 4<sup>th</sup> Feb. 2003.  
Thesis title: *Design and Implementation of Diagnosing Expert System Shell*
- 2007-2011 PhD awarded from the School of Computer Science at the University of Nottingham under the supervision of Prof. Graham Kendall. Viva date: 19<sup>th</sup> Apr 2011. Graduation date: 13<sup>th</sup> July 2011.  
Thesis title: *Investigating Evolutionary Checkers by Incorporating Individual and Social Learning, N-tuple Systems and a Round Robin Tournament.*

## CV Summary

### Academic Publications

- 1 Refereed Book Chapter.
- 44 Refereed Journal Papers.
- 17 Refereed Conference Papers.

### Esteem Indicators

- Member of 16 Program/Technical Committees for International Conferences.
- Reviewer for 9 International Journals includes ISI and Scopus Journals.

### Teaching and Supervision

- Currently teaching four lecture courses.
- Currently supervising two master student.
- 11 Completed master students.

### Postgraduate Examining

- Examined 6 PhD students.
- Examined 26 M.Sc. students.

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# 1. Career History

In 1997, I began an academic career, resulting in me securing a position at University of Anbar in 2003. My complete career history is shown below.

## **Position: Professor**

Employer: University of Anabr, Iraq.  
Start Date: 10<sup>th</sup> September 2018.  
End Date: Present Employment.  
Responsibilities: Research, teaching and administration.

## **Position: Assist. Prof.**

Employer: University of Anabr, Iraq.  
Start Date: 10<sup>th</sup> September 2013.  
End Date: 9<sup>th</sup> September 2018.  
Responsibilities: Research, teaching and administration.

## **Position: Lecturer**

Employer: University of Anabr, Iraq.  
Start Date: 20<sup>th</sup> September 2006.  
End Date: 9<sup>th</sup> September 2013.  
Responsibilities: Research, teaching and administration.

## **Position: Assist. Lecturer**

Employer: University of Anabr, Iraq.  
Start Date: 21<sup>st</sup> September 2003.  
End Date: 19<sup>th</sup> September 2006.  
Responsibilities: Research, teaching and administration.

# 2. Publications

## 2.1. Refereed Book Chapters

### **2019**

1. Salih S. Q., Alsewari, A. A., Al-Khateeb B. and Zolkipli M.F., Novel Multi-Swarm Approach for Balancing Exploration and Exploitation in Particle Swarm Optimization, In: Saeed F., Gazem N., Mohammed F., Busalim A. (eds) Recent Trends in Data Science and Soft Computing. IRICT 2018. Advances in Intelligent Systems and Computing, Vol 843. Springer, Cham, pp 196-206, 2019.

## 2.2. Refereed Journal Publications

### 2020

1. Mahmood M., Al-Khateeb B. and Alwash W.M, A review on neural networks approach on classifying cancers, AES International Journal of Artificial Intelligence (IJ-AI) (Scopus Q2), Vol. 9, No. 2, June 2020, 317-326.
2. Taha M.L., Al-Khateeb B., Hassan Y. F., Ismail O. M, Rawash O. A., Solving competitive traveling salesman problem using Gray Wolf Optimization Algorithm, Journal of Periodicals of Engineering and Natural Sciences (Scopus Q2), Vol. 8, No. 3, 1331-1344, July 2020.

### 2019

3. Li J., Abdulmohsin H. A., Hasan S. S., Kaiming L., Al-Khateeb B., Ghareb M. I., Mohammed M. N., Hybrid soft computing approach for determining water quality indicator: Euphrates River, Neural Computing and Applications, Vol. 31, No. 3, March 2019. Journal Impact Factor is 4.213.
4. Ahmed K., Al-Khateeb B. and Mahmood M., Application of chaos discrete particle swarm optimization algorithm on pavement maintenance scheduling problem, Cluster Computing, <https://doi.org/10.1007/s10586-018-2239-3>, Vol. 22, Issue 2, March 2019, Journal Impact Factor is 1.851.
5. Mahmood M., AL-kubaisy W. J. and Al-Khateeb B., USING ARTIFICIAL NEURAL NETWORK FOR MULTIMEDIA INFORMATION RETRIEVAL, JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY (Scopus Q2), Vol. 54, No. 3, June 2019.
6. Al-Khateeb B. and Yousif M., SOLVING MULTIPLE TRAVELING SALESMAN PROBLEM BY MEERKAT SWARM OPTIMIZATION ALGORITHM, JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY (Scopus Q2), Vol. 54, No. 3, June 2019.
7. Ahmed K., Al-Khateeb B. and Mahmood M., A MULTI-OBJECTIVE PARTICLE SWARM OPTIMIZATION FOR PAVEMENT MAINTENANCE WITH CHAOS AND DISCRETE, JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY (Scopus Q2), Vol. 54, No. 3, June 2019.
8. Mahdi A.T. and Al-Khateeb B., Solving Examination Timetabling Problem Using Crow Swarm Optimization Algorithm, REVISTA AUS (Scopus Q4), No. 26-2, 271-280, August 2019.
9. Al-Janabi S.I.A., Al-Janabi S.T.F. and Al-Khateeb B., Image Retrieval using Neural Network based Hash Encoding: A Survey, REVISTA AUS (Scopus Q4), No. 26-2, 396-409, August 2019.
10. Mahmood M. and Al-Khateeb B., The blue monkey: A new nature inspired metaheuristic optimization algorithm, Journal of Periodicals of Engineering and Natural Sciences (Scopus Q2), Vol. 7, No. 3, 1054-1066, September 2019.
11. Mahmood M. and Al-Khateeb B., Review of neural networks and particle swarm optimization contribution in intrusion detection, Journal of Periodicals of Engineering and Natural Sciences (Scopus Q2), Vol. 7, No. 3, 1067-1073, September 2019.
12. Abdul Lateef A. A., Al-Janabi S. T. F. and Al-Khateeb B., Survey on Intrusion Detection Systems based on Deep Learning, Journal of Periodicals of Engineering and Natural Sciences (Scopus Q2), Vol. 7, No. 3, 1074-1095, September 2019.

### 2018

13. Mohammed M. A., Al-Khateeb B., Rashid A. N., Ibrahim D. A., Ghani M. K. A., and Mostafa S. A., Neural network and multi-fractal dimension features for breast cancer

- classification from ultrasound images, *Computers and Electrical Engineering*, Vol. 70, 871-882, Journal Impact Factor is 1.747.
14. Ahmed K., Al-Khateeb B. and Mahmood M., A CHAOS WITH DISCRETE MULTI-OBJECTIVE PARTICLE SWARM OPTIMIZATION FOR PAVEMENT MAINTENANCE, *Journal of Theoretical and Applied Information Technology (SCOPUS Q4)*, Vol. 96. No. 8, April 2018.
  15. Al-Kubaisi M., Al-Khateeb B. and Mohammed M. N., An Ant Colony Algorithm with Dynamic Cities Allocation for Solving Competitive Travelling Salesmen Problem. *Journal of Engineering and Applied Sciences (SCOPUS Q3)*, Volume 13, Issue 6, 1400-1406, May 2018.
  16. Al-Kubaisi M. and Al-Khateeb B., THE EFFECTS OF THE NUMBER OF ANTS IN SOLVING THE COMPETITIVE SALESMAN PROBLEM. *Journal of Al Maarif University-College*, Volume 26, 79-96, 2018.
  17. Al-Khateeb B., The Selection of Particle Swarm Optimization Learning Factors Values in Solving the Multiple Travelling Salesman Problem, *Journal of Advanced Research in Dynamical and Control Systems (SCOPUS Q4)*, Volume 10, Issue 7, 439-445, September 2018.
  18. Mahmood M., Al-Khateeb B. and Alwash W.M., Review of Neural Networks Contribution in Network Security, *Journal of Advanced Research in Dynamical and Control Systems (SCOPUS Q4)*, Volume 10, Issue 13, 2139-2145, December 2018.
  19. Yousif M. and Al-Khateeb B., A Novel Metaheuristic Algorithm for Multiple Traveling Salesman Problem, *Journal of Advanced Research in Dynamical and Control Systems (SCOPUS Q4)*, Volume 10, Issue 13, 2113-2121, December 2018.
  20. Al-Khateeb B. and Turki A., Meerkat Swarm Optimization Algorithm for Real World University Examination Timetabling Problem, *Journal of Advanced Research in Dynamical and Control Systems (SCOPUS Q4)*, Volume 10, Issue 13, 2103-2112, December 2018.
  21. Al-Thalej A., Esam Taha Yassen E. T. and Al-Khateeb B., Hybrid Quantum Genetic Algorithm for Vehicle Routing Problem with Time Window, *Journal of Advanced Research in Dynamical and Control Systems (SCOPUS Q4)*, Volume 10, Issue 13, 2122-2138, December 2018.
  22. Khudhur D.Y., Al-Khateeb B. and Saeed H.A., Secure Login Technique for Online Banking, *International Journal of Engineering & Technology (SCOPUS Q4)*, Vol. 7, Issue 4, 5434-5437, December 2018.

## 2017

23. Faraj, S. T, Al-Khateeb, B. and Jumma A, Intelligent Techniques in Cryptanalysis: Review and Future Directions, *UHD JOURNAL OF SCIENCE AND TECHNOLOGY*, Vol. 1, Issue 1, 1-10, April 2017.
24. Khalaf M.H., Al-Khateeb B. and Farhan R. N., MNIST Classification using Deep Learning. *Asian Journal of Information Technology*, Volume 16, Issue 2, 268-273, October 2017.
25. Khalaf M.H., Al-Khateeb B. and Farhan R. N., HAND WRITTEN CHARACTER RECOGNITION USING NEURAL NETWORK AND DEEP BELIEF NETWORK, *Journal of Theoretical and Applied Information Technology (SCOPUS Q4)*, Vol. 95. No. 19, October 2017.
26. Mahmood M. and Al-Khateeb B., TOWARDS AN AUTOMATIC GENERATION OF NEURAL NETWORKS, *Journal of Theoretical and Applied Information Technology (SCOPUS Q4)*, Vol. 95., No. 23, December 2017.

27. Rashid A., Al-Khateeb B. and Awad A.M., Designing a Smart Glasses for Blind People. Journal of Engineering and Applied Sciences (SCOPUS Q3), Vol. 12, No. 30, December 2017.

## **2016**

28. Al-Khateeb, B., Hilal, A.J., and Faraj, S. T, Web Search Enhancement Using WordNet Query Expansion Technique, Journal of University of Human Development, Volume 2, No. 3, August 2016.
29. Mohammed M.A., Al-Khateeb B. and Ibrahim D.A., Case Based Reasoning Shell Framework as Decision Support Tool, Indian Journal of Science and Technology (Scopus Q1), Volume 9, No. 42, November 2016.
30. Mohammed M.A., Al-Khateeb B. and Ibrahim D.A., Human Interaction with Mobile Devices on Social Networks by Young and Elderly People Iraq a Case Study, Indian Journal of Science and Technology (Scopus Q1), Volume 9, No. 42, November 2016.

## **2015**

31. Adeeb M., Suliman A., Abdullah S. and Al-Khateeb B., Enhanced Google-Based Semantic Category Search, Journal of University of Human Development, Volume 1, No. 4, September 2015.

## **2014**

32. Al-Khateeb B., Jamal A. and Jalil A., Investigating Crossover Techniques for the 8-Queens Problem, International Journal of Advanced Research in Computer Science (IJARCS), Volume 5, No. 5, May-June 2014.

## **2013**

33. Al-Khateeb B., Abdullah S. and Adeeb M., A Proposed Google-Based Category Search, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Volume 3, Issue 9, September 2013.
34. Al-Khateeb B. and Hamad B., A Controlled Randomization Method to Schedule Doctors in Al-Ramadi Hospital, International Journal of Advanced Computer Technology (IJACT), VOLUME 2, NUMBER 3, JUNE 2013.
35. Al-Khateeb B. and Mahmood M., A Framework for an Automatic Generation of Neural Networks, International Journal of Computer Science Issues (IJCSI), Vol. 10, Issue 3, No 2, May 2013.
36. Sagheer A. M., Al-Khateeb B. and Soud M. A., Proposed System for e-learning, presented in e-learning symposium 2013 in Development & Continuing Education Center-University of Baghdad, Iraq, 15-16-May-2013.

## **2012**

37. Al-Khateeb B. and Kendall G., Introducing Individual and Social Learning into Evolutionary Checkers, The Transactions on Computational Intelligence and AI in Games (TCIAIG), VOL. 4, NO. 4, DECEMBER 2012. Journal Impact Factor is 1.62.
38. Al-Khateeb B. and Kendall G., Effect of Look-Ahead Depth in Evolutionary Checkers. Journal of Computer Science and Technology 27(5): 996-1006, Sept. 2012. Journal Impact Factor is 0.6.

39. Al-Khateeb B., An Evolutionary Tic Tac Toe Player, International Journal of Reasoning-based Intelligent Systems (IJRIS), 4(4), 2012.

#### **2011**

40. Al-Rawi S. and Al-Khateeb B, Specialized Search Engines for Arabic Language, Journal of Information Technology Review, Vol. 2(1) February 2011, 1-10.

#### **2010**

41. Al-Rawi S. and Al-Khateeb B, Comparison the Efficiency of Some Search Engines on Arabic Keywords and Roots, International Journal of Computational Linguistics Research, Vol. 1(1) March 2010, 23-30.

#### **2008**

42. Al-Khateeb B. and Al-Rawi B., Diagnosing Computer Errors, Journal of Al Maarif University-College, Vol.9, 2008, 514-522.

#### **2005**

43. Al-Khateeb B., Samawi V. W. and Bashaga T. S., Visual Arabic Expert System Shell (VAES), Journal of Science and Engineering, Vol.3, 2005, 75-83.
44. Al-Khateeb B., Design and Implementation of Spelling Checker System, Journal of Science and Engineering, Vol.3, 2005, 84-88.

### **2.3. Refereed Conference Publications**

#### **2020**

1. Ahmed A.H., Al-Heety A.T., Al-Khateeb B. and Mohammed A.H., Energy Efficiency in 5G Massive MIMO for Mobile Wireless Network. 2020 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Ankara, Turkey, June 2020.

#### **2018**

2. Al-Kubaisi M. and Al-Khateeb B., THE EFFECTS OF THE NUMBER OF ANTS IN SOLVING THE COMPETITIVE SALESMAN PROBLEM. Al Maarif University-College 9<sup>th</sup> Scientific Conference, Ramadi, Iraq, April 2018.
3. Salih S. Q., Alsewari, A. A., Al-Khateeb B. and Zolkipli M.F., Novel Multi-Swarm Approach for Balancing Exploration and Exploitation in Particle Swarm Optimization, The 3rd International Conference of Reliable Information and Communication Technology 2018 (IRICT 2018), Putrajaya, Malaysia, July 2018.

#### **2017**

4. Al-Khateeb, B., Hilal, A.J., and Faraj, S. T., Query Reformulation Using WordNet and Genetic Algorithm, 2017 Annual Conference on New Trends in Information & Communications Technology Applications (NTICT), Baghdad, IRAQ, 2017. Pages: 91 - 96, DOI: 10.1109/NTICT.2017.7976138.

5. Faraj, S. T, Al-Khateeb, B. and Jumma A, Intelligent Techniques in Cryptanalysis: Review and Future Directions in Proceeding of the Forth International Scientific Conference of University of Human Development (UHDCComp'2017), Sulaimani, IRAQ, 2017.

#### **2016**

6. Al-Khateeb, B., Hilal, A.J., and Faraj, S. T., Enhanced Google-Based Semantic Category Search in Proceeding of the Third International Scientific Conference of University of Human Development (UHDCComp'2016), Sulaimani, IRAQ, 2016.

#### **2015**

7. Adeb M., Suliman A., Abdullah S. and Al-Khateeb B., Enhanced Google-Based Semantic Category Search in Proceeding of the Second International Scientific Conference of University of Human Development (UHDCComp'2015), Sulaimani, IRAQ, 2015.

#### **2014**

8. Shakir A., Al-Khateeb B., Shakir K. and Jalab H., The effect of neighborhood structures on tabu search algorithm in solving university course timetabling problem, In the proceedings of International Conference on Quantitative Sciences and Its Applications (ICOQSIA 2014), Malaysia, 2014, 657,664.
9. Al-Khateeb B. and Suliman A., Design and Implementation of a Goolkeeper Robot, in Proceeding of the First International Scientific Conference, Cihan University, Erbil, IRAQ, 2014.

#### **2013**

10. Al-Khateeb B. and Tareq W., A New Randomized Method for Solving 8-Queens, in Proceeding of The Eighth Scientific Conference on Computer Science and Mathematics, College of Science, University of Mustansiriyah, Baghdad, IRAQ, 2013.
11. Al-Khateeb B., Tareq W., Solving 8-Queens Problem by Using Genetic Algorithms, Simulated Annealing and Randomization Method, in Proceeding of DeSE 2013, Abu Dhabi, UAE, 2011, 294-299.

#### **2012**

12. Al-Khateeb B., An Evolutionary Tic Tac Toe Player, in Proceeding of The Second Scientific Conference on Computer Science and Information Technology (CCIT2012), Ramadi, IRAQ, 2012.

#### **2011**

13. Al-Khateeb B. and Kendall G., The Importance of look ahead Depth in Evolutionary Checkers, in Proceeding of 2011 IEEE Congress on Evolutionary Computation (CEC 2011), New Orleans, USA, 2011, 2252-2258.
14. Al-Khateeb B. and Kendall G., Introducing a Round Robin Tournament into Evolutionary Individual and Social Learning Checkers, in Proceeding of DeSE 2011, Dubai, UAE, 2011, 294-299.

## 2010

15. Al-Khateeb B. and Kendall G., The Importance of a Piece Difference Feature to Blondie24, In Proceedings of The 10th Annual Workshop on Computational Intelligence (UK2010), Essex, UK, 2010, 1-6.

## 2009

16. Al-Rawi S. and Al-Khateeb B, Comparison the Efficiency of Some Search Engines on Arabic Keywords and Roots, In Proceedings of The Second International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2009), London, UK.
17. Al-Khateeb B. and Kendall G., Introducing a Round Robin Tournament into Blondie24, In Proceedings of the IEEE 2009 Symposium on Computational Intelligence and Games (CIG09), Milan, Italy, 2009, 112-116.

## 3. Teaching

- 1- 2000–2002: Programming Lab. Supervisor, College of Computers, University of Anbar, Iraq.
- 2- 2000–2002: Artificial Intelligence Lab. Supervisor, College of Computers, University of Anbar, Iraq.
- 3- 2000–2002: Compiler Lab. Supervisor, Computer Science Department, AL-Nahrain University, Iraq.
- 4- 2000–2002: Artificial Intelligence Lab. Supervisor, Computer Science Department, AL-Nahrain University, Iraq.
- 5- 2002–2003: Software Engineering Lab. Supervisor, Computer Science Department AL-Nahrain University, Iraq.
- 6- 2003–2004: Lecturer, Programming Languages, College of Computers, University of Anbar, Iraq.
- 7- 2003–2004: Lecturer, Compilers, College of Computers, University of Anbar, Iraq.
- 8- 2004-2005 Lecturer, C++, College of Computers, University of Anbar, Iraq.
- 9- 2003-2007 Lecturer, Computation Theory, College of Computers, University of Anbar, Iraq.
- 10-2003-2007 Lecturer, Artificial Intelligence, College of Computers, University of Anbar, Iraq.
- 11-2005-2007 Lecturer, Introduction to Computers, College of Medicine, University of Anbar, Iraq.
- 12-2011-present Lecturer, Artificial Intelligence, College of Computers, University of Anbar, Iraq.
- 13-2011-2013 Lecturer, Computation Theory, College of Computers, University of Anbar, Iraq.
- 14-2011-2014 Lecturer, Computing in Practice (Game Programming), College of Computers, University of Anbar, Iraq.
- 15-2015-2016 Lecturer, Introduction to Computers, College of Pharmacy, University of Anbar, Iraq.
- 16-2015-2016 Lecturer, Introduction to Computers, College of Dentistry, University of Anbar, Iraq.
- 17-2015-present Lecturer, Evolutionary Computation, Post Graduate Course, College of Computer Science and Information Technology, University of Anbar, Iraq.

- 18-2015-2018 Lecturer, English Language, Post Graduate Course, College of Computer Science and Information Technology, University of Anbar, Iraq.
- 19-2015-2018 Lecturer, Research Methodologies, Post Graduate Course, College of Computer Science and Information Technology, University of Anbar, Iraq.
- 20-2015-2016 Lecturer, Advanced Artificial Intelligence, Post Graduate Course, College of Engineering, University of Anbar, Iraq.

## 4. Supervision

### 4.1 Current M.Sc. Supervision

- 1- **Mushreq Loay Taha**, Solving Competitive Travelling Salesmen Problem Using Gray Wolf Optimization, started September 2019, Joint supervision with Dr. Yassir Foad, Osama Mohammed and Osama Abduallah.
- 2- **Noor Mahmmod**, Electricity-Theft Detection in Smart Grids based on Deep Learning, started September 2019, Joint supervision with Dr. Sufyan Taih Faraj.

### 4.2 Completed M.Sc. Students

- 1- **Ali Mahmood Shakir**: An Investigation of New Meta-heuristics Algorithms in Optimizing Course Timetabling Problem, started November 2012, finished April 2014. Joint supervision with Dr. Khalid Shakir.
- 2- **Maha Mahmood Jassam**: Towards an Automatic Generation of Neural Networks, started November 2012, finished September 2014.
- 3- **Ali Jamal Hilal**: Towards an Intelligent Search Engine, started November 2013, finished April 2016. Joint supervision with Dr. Sufyan Taih.
- 4- **Muhannad AbdualSattar Hameed**, Using metaheuristic approaches for solving competitive Travelling Salesman Problem, started November 2015, finished December 2016.
- 5- **Majid Hameed Khalaf**, Improving Deep Learning using Spiking Neural Network, started November 2015, finished March 2017. Joint supervision with Dr. Rabah Nori.
- 6- **Kawther Ahmed Abed**, A Discrete Chaos Particle Swarm Optimization for Multi-Objective Pavement Maintenance Decision Problem, Started September 2016, finished March 2018, Joint supervision with Dr. Mahir Shakir.
- 7- **Mohammed Yousif Ibrahim**, A Novel Crow Swarm Optimization Algorithm for Multiple Travelling Salesman Problem, started September 2017, finished January 2019.
- 8- **Amal Turky Mahdi**. A Novel Meerkat Swarm Optimization Algorithm for University Time Table Problem, started September 2017, finished January 2019.
- 9- **Ahmed Mohannad Al-Thalig**, An Evolutionary Algorithm for Vehicle Routing Problem with Time Window, started September 2016, finished April 2019, Joint supervision with Dr. Essam Taha.
- 10- **Ali Azawi Abdualateef**, Intrusion Detection System based on Deep Learning, started September 2018, finished January 2020, Joint supervision with Dr. Sufyan Taih Faraj.
- 11- **Sameer Ismail**, Neural Network based Hash Coding, started September 2018, finished January 2020, Joint supervision with Dr. Sufyan Taih Faraj.

## 5. Esteem Indicators

- 1- Member of technical program committee for the 2020 IEEE Congress on Evolutionary Computation (IEEE CEC2020).
- 2- Member of technical program committee for the Union of Arab Statisticians Seventh International Scientific Conference 2020.

- 3- Member of technical program committee for SCS-NCC 2019 (22<sup>nd</sup> Saudi Computer Society National Computer Conference, 2019).
- 4- Member of technical program committee Applied computing to support industry: Innovation and technology (ACRIT 2019).
- 5- Co-chair of the CCIT 2019, 4-5 April 2012, Ramadi, IRAQ
- 6- Member of technical program committee for SCS-NCC 2018 (21<sup>st</sup> Saudi Computer Society National Computer Conference, 2018).
- 7- Member of technical program committee for the 6th Int. Scientific Conference of Union of Arab Statisticians 2017.
- 8- Member of technical program committee for University of Human Development Third International Conference on Computing and Information Technology 2016 (UHDComp'16).
- 9- Member of technical program committee for University of Human Development Second International Conference on Computing and Information Technology 2015 (UHDComp'15).
- 10- Member of technical program committee for eQeSS 2015 (2015 International Conference on e-Quality & e-Service Sciences), 24-25 Feb 2015, Dubai, UAE.
- 11- Member of the International and Technical Programme Committee of the Developments e-Systems Engineering International Conference (DeSE 2013), 16-18 December 2013, Dubai, U.A.E.
- 12- Member of the Reviewers Committee of the The 3rd international Conference on Consumer Electronics, Communications and Networks (CECNet 2013), Nov. 20~22, 2013, Xianning, China.
- 13- Member of the International and Technical Programme Committee of the CCIT 2012, 4-5 April 2012, Ramadi, IRAQ.
- 14- Member of the Reviewers Committee of the AUC'2012 Eighth Science Conference, 10-11 March 2012, Ramadi, IRAQ.
- 15- Member of the International and Technical Programme Committee of the Developments e-Systems Engineering International Conference (DeSE 2011), 6-8 December 2011, Dubai, U.A.E.
- 16- Member of the Reviewers Committee of the Second International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2009), 4-6 August 2009, London, UK.
- 17- Reviewer for IEEE Transactions on Computational Intelligence and AI in Games Journal.
- 18- Reviewer for Computer Communication & Collaboration Journal.
- 19- Reviewer for The International Journal of Business and ICT (IJBICT).
- 20- Editorial Board Member for the Journal of Theoretical and Applied Information Technology (JATIT).
- 21- Reviewer for International Journal of Engineering and Technology (UAE).
- 22- Reviewer for Computers and Electrical Engineering Journal.
- 23- Reviewer for Iraqi Journal of Information & Communications Technology.
- 24- Reviewer for the Journal of Experimental & Theoretical Artificial Intelligence.
- 25- Reviewer for the IAES International Journal of Artificial Intelligence (IJ-AI).

## **6. Administration**

Since being appointed as a lecturer in the College of Computer Science and Information Technology-University of Anbar, I have undertaken the following administration duties.

- 2004 – 2006: Deputy Head of the Computer Science Department.
- 2006 – 2007: Member of the Computer Science Department Examination Committee.
- 2007 – 2012: Member of the Computer Science Department Scientific Committee.
- 2012 – 2018: Head of the Computer Science Department.
- 2018 – 2019: Dean of College of Computer Science and Information Technology.

## 7. Research Interests

### 7.1. Evolutionary Games Intelligence

This area was the topic of my PhD research and I have been developing it since that time. Please refer to the list of publications above.

### 7.2. Expert Systems

This area was the topic of my MSc research. Please refer to the list of publications above.

### 7.3. Search Engines

This area is one of my research interests. Please refer to the list of publications above.

## 8. Awards

- 1- Second best computer science graduate among all Iraqi graduates in the year 1999-2000.
- 2- ITEX Gold Medal for the best award, 26<sup>th</sup> International Invention, Innovation & Technology Exhibition (ITEX2015), Malaysia.
- 3- ITEX Silver Medal, 26<sup>th</sup> International Invention, Innovation & Technology Exhibition (ITEX2015), Malaysia.
- 4- ITEX Silver Medal, 27<sup>th</sup> International Invention, Innovation & Technology Exhibition (ITEX2016), Malaysia.
- 5- ITEX Bronze Medal, 27<sup>th</sup> International Invention, Innovation & Technology Exhibition (ITEX2016), Malaysia.

## 9. Postgraduate Examining

### 9.1. PhD Examiner

- 1- **Nasreen J. Kadhim:** University of Technology, Iraq, viva date, 13<sup>th</sup> March 2016. Thesis Title “Models for Enhancing Information Retrieval using Soft Computing”.
- 2- **Wathiq Najah Abdullah:** University of Technology, Iraq, viva date, 27<sup>th</sup> February 2017. Thesis Title “Search Engine for Identification of Personal Images”.
- 3- **Mustafa Jasim Hadi:** University of Technology, Iraq, viva date, 14<sup>th</sup> January 2018. Thesis Title “Sense-Based Information Retrieval Using Soft Computing Techniques”.

- 4- **Ahmed Faiq Abdulmajeed:** University of Babylon, Iraq, viva date, 4<sup>th</sup> July 2019. Thesis Title “Improving Community Detection of Social Networks using Developed Graph Mining Techniques”.
- 5- **Khudhair Jasim Kadhim:** University of Technology, Iraq, viva date, 29<sup>th</sup> December 2019. Thesis Title “Arabic Multi Documents Opinion Extraction Using Argumentation Mining”.
- 6- **Asia Mahdi Naser Alzubaidi:** University of Babylon, Iraq, viva date, 23<sup>th</sup> June 2020. Thesis Title “Telecom Churn Predication using Ensemble Learners and Customers Social Networking Analysis”.

## 9.2. M.Sc. Examiner

- 1- **Dua’a Yaseen Kidher:** University of Al-Anbar, Iraq, viva date, 13<sup>th</sup> November 2011. Thesis Title “Design and Implementation of Internet Billing System”.
- 2- **Hussam Jasim Mohammed:** University of Al-Anbar, Iraq, viva date, 27<sup>th</sup> December 2011. Thesis Title “Hybrid E-Commerce Security System Based on Irreducible Polynomials”.
- 3- **Baraa Tareq Hammad:** University of Al-Anbar, Iraq, viva date, 6<sup>th</sup> August 2012. Thesis Title “Development of DNA based- Cryptosystem”.
- 4- **Isra Haithem Al-Ani:** University of Al-Anbar, Iraq, viva date, 2<sup>nd</sup> September 2012. Thesis Title “Design and Implementation of an Improved Gait Recognition Algorithm”.
- 5- **Wadhah Zeyad Tareq:** University of Al-Anbar, Iraq, viva date, 16<sup>th</sup> December 2012. Thesis Title “Autonomic System Governance Using Self Organization, Emergence And Stigmergy”.
- 6- **Sara Abbas Rafa:** University of Al-Anbar, Iraq, viva date, 14<sup>th</sup> March 2013. Thesis Title “Multi Objective Function Optimization Search Using Improved Harmony Algorithm”.
- 7- **Ayob Abdul-Monem Abdul-Hameed:** University of Anbar, Iraq, viva date, 24<sup>th</sup> August 2014. Thesis Title “Secure MMs Messaging System in Smartphone”.
- 8- **Mustafa Majeed Abd Zaid:** Baghdad University, Iraq, viva date, 8<sup>th</sup> July 2015. Thesis Title “Cartoon Images Retrieval System”.
- 9- **Ayman Jalil Abdulelah:** University of Anbar, Iraq, viva date, 13<sup>th</sup> December 2015. Thesis Title “Sieve Based Metaheuristics Search”.
- 10- **Ruaa Isam Fadhil:** Baghdad University, Iraq, viva date, 20<sup>th</sup> March 2016. Thesis Title “Finger Vein Authentication System”.
- 11- **Wasan Maddah Al-Alousi:** University of Anbar, Iraq, viva date, 14<sup>th</sup> April 2016. Thesis Title “Classification of Human Facial Expression using Wavelet Transform and Intelligent Technique”.
- 12- **Dlsoz Abdalkarim Rashid:** Baghdad University, Iraq, viva date, 5<sup>th</sup> June 2016. Thesis Title “A Multi-Objective Set Covers Problem for Energy Efficient Target Coverage in Wireless Sensor Networks”.
- 13- **Nisreen Ayad Saied:** University of Anbar, Iraq, viva date, 5<sup>th</sup> December 2016. Thesis Title “Degree of Freedom in Robotic Arm Using Neuro fuzzy”.
- 14- **Themar Ali Jaleel:** University of Technology, Iraq, viva date, 24<sup>th</sup> January 2017. Thesis Title “Proposed Multi Mobile Robot Path Planning Using Soft Computing Techniques”.
- 15- **Asma Ibrahim Hussein:** University of Technology, Iraq, viva date, 30<sup>th</sup> March 2017. Thesis Title “Recognition of Anemia Images Using Decision Tree”.
- 16- **Noor AL Huda Fadhel Abbas:** University of Technology, Iraq, viva date, 23<sup>th</sup> November 2017. Thesis Title “Design and Implementation of Optimal Path Planning for Robot Arm using Modified Swarm Optimization Techniques”.
- 17- **Wael Ali Aljumaily:** University of Anbar, Iraq, viva date, 29<sup>th</sup> November 2017. Thesis Title “Using Software Engineering Techniques for the Design and Implementation of Cryptanalysis Platform”.
- 18- **Tanya Shakir Mahmood:** University of Anbar, Iraq, viva date, 6<sup>th</sup> March 2018. Thesis Title “Design Expert System to Follow Growth Development for Psoriasis Diseases using Two factors (Size and Colors)”.
- 19- **Rana Faris Najeeb:** Al Nahrain University, Iraq, viva date, 15<sup>th</sup> March 2018. Thesis Title “Intrusion Detection System”.
- 20- **Sheelan Waad Adwaan:** University of Technology, Iraq, viva date, 10<sup>h</sup> June 2018. Thesis Title “Multi Robot Path Planning in Cluttered Environment Using Evolution Computation Techniques”.
- 21- **Mina Bashir Ghani:** Al Nahrain University, Iraq, viva date, 18<sup>th</sup> October 2018. Thesis Title “Neighbor Joining Method for Phylogenenses”.

- 22- **Amenah Haithem Abdulateef:** University of Anbar, Iraq, viva date, 13<sup>th</sup> December 2018. Thesis Title “A Multi-Objective Complex Mining in Protein-Protein Interaction Networks”.
- 23- **Husam Imad AbdulRazzaq:** University of Technology, Iraq, viva date, 27<sup>th</sup> December 2018. Thesis Title “Robust Authentication Based on Multi Biometric Techniques”.
- 24- **Ali Tariq Radeef:** University of Anbar, Iraq, viva date, 14<sup>th</sup> April 2019. Thesis Title “A Hybrid Dynamic Approach for Knowledge Driven DSS”.
- 25- **Dhuha Shamil Mustafa:** University of Anbar, Iraq, viva date, 15<sup>th</sup> January 2020. Thesis Title “Smart Electrical Meter Reading and Monitoring Utilising Embedded System”.
- 26- **Assef Raad Hmeed:** University of Anbar, Iraq, viva date, 5<sup>th</sup> March 2020. Thesis Title “Upgrade the Medical Image Segmentation Based-on Deep Learning Approaches”.