

Contact Information

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Education

Ph.D. in Computer Science (2015):

Topic: Slantlet Transform-Based Segmentation and Alpha-Shape Theory-Based 3D Visualization and Volume Calculation Methods for MRI Brain Tumour.

From: Universiti Teknologi Malaysia (UTM), Malaysia.

Master in Computer Science (2000):

Topic: Statistical Classifier of Arabic Documents

From: Universiti of Science and Technology, Yemen.

Bachelor in Computer Science (1997):

Field: Programming and System Analysis

From: Universiti of Al-Fateh, Lybya.

Patent in Computer Science (2015):

Topic: Method and System for MR Image Brain Tumour Segmentation, Visualization and Volumetric Measurement Using Alpha Shape Theory

From: Moloysion Potent Office (MyIPO) with filing no: PI 2015 701343 on 27 April 2015.

Copyright Production System (2015):

Topic: Automatic Segmentation of Brain Tumor from MR Images using Slantlet Transform.

From: Universiti Teknologi Malaysia (UTM), Malaysia. UTM.J.01.14/27.13/1JLD80(43).

Copyright Production System (2015):

Topic: A New Method for Detecting Cerebral Tissues Abnormality in Magnetic Resonance Images.

From: Universiti Teknologi Malaysia (UTM), Malaysia. UTM.J.01.14/27.13/1JLD80(45).

Area of Specialization

Digital Image Processing.

Research Interest

Medical Image Processing, Pattern Recognition, Multimedia.

Courses Taught/ Teaching

❖ *Undergraduate:*

- 1- Introduction to computer science.
- 2- System analysis.
- 3- Software engineering.
- 4- Data base system management.
- 5- Advance data base system management.
- 6- Object oriented programming I.
- 7- Object oriented programming II.
- 8- Computer graphics.
- 9- Advance computer graphics.
- 10- Probability and statistical inference.

❖ *Postgraduate:*

- 1- Multimedia.
- 2- Digital image processing.

Awards and Recognition

- ☒ President of the University of Baghdad (2010, 2012, 2020).
- ☒ Dean of the college of Agriculture (2010).
- ☒ Dean of the college of Science – Baghdad University (2010, 2016, 2017, 2019).
- ☒ Dean of the college of Arts (2010).
- ☒ Dean of the college of Science – Dyala University (2018).
- ☒ Dean of faculty of computing - UTM (2013, 2014).
- ☒ Iraqi Cultural Attaché in Malaysia (2015).
- ☒ Minister of Higher Education and Scientific Research (2020, 2021).

Awards and Recognition

❖ *College of Science - University of Baghdad:*

- ☒ The central admission committee for postgraduate students in University of Baghdad
- ☒ Examination committee for the admission of postgraduate students in Department of Computer Science.
- ☒ Scientific committee of the Department of Computer Science
- ☒ Examination committee / undergraduate studies / Department of Computer Science.
- ☒ Electronic examination committee / postgraduate studies / Department of Computer Science.
- ☒ Educational guidance committee / Department of Computer Science.
- ☒ Absences committee / Department of Computer Science. Summer training committee for computer science graduates
- ☒ A committee to discuss graduation projects for students - the Department of Computer Science.
- ☒ Committees for evaluating dissertations coming from outside Iraq
- ☒ Scientific placement committees for scientific promotion research
- ☒ Member of the Council of the Department of Computer Science.
- ☒ I was assigned to head the Computer Science Department more than once.
- ☒ Postgraduate manager for Department of Computer Science.

Supervision of Postgraduate Students

❖ **Master Degree:**

- 1- Sara M. Ibrahim - *Novel Graph Based for Finger-Vein Human Recognition* (2017).
- 2- Shayma A. Yahya - *Early Detection of Alzheimer's Diseases Using Magnetic Resonance Images* (2018).
- 3- Nibras A. M. Ali - *Multi-Focal Image Fusion Technique Using Convolutional Neural Network* (2019).
- 4- Arwa S. A. Zahra - *Facial Image Compression Using Deep Learning Auto-Encoders* (2020).
- 5- Farah K. A. Jabar - *Plagiarism Detection in Scientific Publications Using Similarity Measurers* (2020).
- 6- Rua S. Salman - *New Human Recognition Based For Finger Vein* (2020).

Scientific Discussions

❖ **Master Degree:**

- 1- Enam R. Mohammed - *Image Steganography Using Quantum PSO* (2017).
- 2- Asel M. Mahde - *Satellite Image Compression Based on Intra-Inter Coding Frame* (2017).
- 3- Ebtesam A. Taque - *Using DNA Encoding and Chaotic maps for Image Encryption* (2018).
- 4- Moroj K. A. - *Frontal Facial Recognition System Based on Spatial Features with Neural Network Techniques* (2019).
- 5- Shahad S. H. - *Offline Signature Recognition Using Spatial Method Distribution* (2020).
- 6- Abdulah A. H. - *Photo Passport Image Compression Using Adaptive Techniques* (2020).
- 7- Ekhlal S. Naser - *Diabetes Diagnosis Using Multi-Layer Classification* (2021).
- 8- Reem M. Jasem - *Detection of Plant Leaves Diseases Using Image Processing Based on Deep Learning Techniques* (2021).

❖ **Higher Diploma:**

- 1- Marwa B. Jawad - *Color Image Compression of Inter Prediction Base* (2017).
- 2- Anhar S. M. - *Lossless and Lossy Medical Image Compression Based on Region of Interest* (2018).
- 3- Maher K. S. - *Comparative Study on Graph Algorithms, Representation and Applications* (2019).
- 4- Anwar A. Razak - *Multi-Wavelet Based Image De-Noising* (2020).
- 5- Ola K. - *Polynomial Color Image Compression Using Joint and Different Models* (2020).
- 6- Heba K. A. - *Lossless Image Compression Using Fixed Prediction Scheme* (2021).
- 7- Falah H. A. - *A Fingerprint Based Examination Hall Authentication System* (2021).

Publications

No.	Title	Journal	Details	Year
1	Vulnerability Assessment on Ethereum Based Smart Contract Applications	IEEE International Conference on Automatic Control and Intelligent Systems (I2CACIS) (2021)	pp. 13-18	2021
2	Lossy Image Compression Using Hybrid Deep Learning Autoencoder Based On kmean Clustering	International Journal of Intelligent Engineering and Systems	Issue. 7, pp. 7848-7861	2021
3	Hybrid System for Plagiarism Detection on A Scientific Paper	Turkish Journal of Computer and Mathematics Education	vol.12, no 13, pp 5707-5719	2021
4	Image Fusion Using A Convolutional Neural Network	Solid State Technology	vol. 63, Issue. 6, pp.13149-13162	2020
5	Survey Based Study: Classification of Patients with Alzheimer's Disease	Iraqi Journal of Science	vol. 61, Issue. 11, pp.3104-3126	2020
6	Improved Merging Multi Convolutional Neural Networks Framework of Image Indexing and Retrieval	International Journal of Advance Science and Technology	vol. 29, Issue. 8s, pp.1884-1901	2020
7	MR Images Classification of Alzheimer's Disease Based on Deep Belief Network Method	International Journal of Advance Science and Technology	vol. 29, Issue. 10s, pp.3078-3088	2020
8	Image Fusion Techniques: A Review	International Journal of Psychosocial Rehabilitation	vol. 24, Issue. 10, pp.2194-2214	2020
9	Secure Image Steganography Through Multilevel Security	International Journal of Innovation, Creativity and Change	vol. 11, Issue. 1, pp.80-103	2020
10	Combining Convolutional Neural Networks and Slantlet Transform For An Effective Image Retrieval Scheme	International Journal of Electrical and Computer Engineering	vol. 9, Issue. 5, part. 2, pp.4282-4395	2019

No.	Title	Journal	Details	Year
11	A Survey on the Vein Biometric Recognition Systems: Trends and Challenges	Journal of Theoretical and Applied Information Technology	vol. 16, no. 2, pp. 551–568	2019
12	Brain Tumour Detection Using Fine-Tuning Mechanism for Magnetic Resonance Imaging	Malaysian Technical Universities Conference on Engineering and Technology (MATEC), EDP Sciences	vol. 150, pp. 06025	2018
13	An Improve Image Encryption Algorithm Based on Multi-Level of Chaotic Maps and Lagrange Interpolation.	Iraqi Journal of Science	vol. 59, no. 1A, pp. 179-188	2018
14	Classification of Arabic Writer Based on Clustering Techniques	International Conference of Reliable Information and Communication Technology (IRICT)	pp. 48-58	2017
15	New Combined Technique for Fingerprint Image Enhancement Hybrid	Modern Applied Science	vol. 11, no. 1, pp. 222-234	2017
16	A New Abnormality Detection Approach for T1-Weighted Magnetic Resonance Imaging Brain Slices Using Three Planes	Advances in Computing	vol. 6, no. 1, pp. 6-27	2016
17	Hybrid Methodology for Image Segmentation Based on Active Contour Module and Alpha-Shape Theory. Modern Applied Science	Modern Applied Science	vol. 10, no. 11, pp. 30-53	2016
18	Alpha Shape Theory for 3D Visualization and Volumetric Measurement of Brain Tumor Progression Using Magnetic Resonance Images	Magnetic Resonance Imaging (ELSEVIER–ISI, IF: 2.090)	vol. 33, pp. 787–803	2015
19	A New Method for Detecting Cerebral Tissues Abnormality in Magnetic	Modern Applied Science	vol. 9, no. 8, pp. 363-379	2015

No.	Title	Journal	Details	Year
	Resonance Images			
20	Tumor Brain Detection Through MR Images: A Review of Literature	Journal of Theoretical and Applied Information Technology	vol. 62, no. 2, pp. 387–403	2014
21	A Review of Snake Models in Medical MR Image Segmentation	Jurnal Teknologi	vol. 2, no. 1, pp. 101–106	2014

Technical Contribution & International Committee

- ☒ Reviewer, *Iraqi Journal of Science*.
- ☒ Reviewer, *Diyala Journal For Pure Science*.
- ☒ Reviewer, *Baghdad Science Journal*.
- ☒ Reviewer, *Journal of Scientific Research and Reports*.

Declaration:

I hereby declare that the details specified above are true to the best of my knowledge and believe.

Venue: Department of Computer Science – College of Science – University of Baghdad, Baghdad, Iraq.

Date: 01/04/2021