



Essam Faleh Al Daoud

Email: essamdz@zu.edu.jo

Computer Science/ Security

Academic Rank: Professor

Membership:

1	Member of the Technical Committee of the International Arab Conference on Information Technology (ACIT).
2	Member of the Editorial board of the International Arab Journal of Information Technology (IAJIT).
3	Founding member of the international center for scientific research and studies (ICSRS) http://www.i-csrs.org
4	Chairman, Committee for Graduate Studies, Faculty of Information Technology and Computer Sciences
5	Member, Science Research Committee, Faculty of IT and Computer Sciences
6	Member, Promotion Committee, Faculty of Information Technology and Computer Sciences



Qualifications:

1999- 2002	Philosophy Doctorate (Ph. D)Computer Science Department, University Putra Malaysia. Thesis: An Improved Public Key Cryptography Based on Elliptic Curve
1998-1995	Master's of Science Al al-Bayt University, Jordan. Thesis: A new Algorithm Based On Direct Methods For Solving Sparse Linear Systems
1991-1989	Bachelor of Science Mu'tah University.

Professional Objective(s):

Teaching Experience:

#	From	to	
1	2015	Now	Full-time Professor, Computer Science Department, Zarqa University, Jordan. Responsibilities include teaching, advising students, research, and participating in various committees
2	2010	2015	Full-time Associate Professor, Computer Science Department, Zarqa University, Jordan. Responsibilities include teaching, advising students, research, and participating in various committees
3	2010	2012	Head of Computer Science Department Faculty of Science and Information Technology, Zarqa University, Jordan. Responsibilities include teaching, advising students, research, and participating in various committees.
4	2002	2010	Full-time Assistant Professor, Computer Science Department, Zarqa University, Jordan. Responsibilities include teaching, advising students, research, and participating in various committees.
5	2000	2002	Full-time Lecturer, Faculty of Information Technology, Multimedia University, Malaysia. Responsibilities include teaching, advising students, research, and participating in various committees.



6	1998	2000	Full-time Lecturer, Faculty of Information Technology, INTI college University, Malaysia. Responsibilities include teaching, advising students, research, and participating in various committees.
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Publications:

#	Title	Publisher	Year/ Issue (Vol/No)
1.	A New Addition Formula For Elliptic Curves Over $GF(2^n)$	IEEE Transactions on Computers	2002 Vol. 51 No. 8
2.	An Improved Algorithm for the Solution of Sparse Linear Systems	<i>J. Inst. Math. & Computer Sciences, (Comp. Sc. Ser.)</i>	2003 Vol. 14 No. 1
3.	An Improved Implementation of Elliptic Curve Digital Signature by Using Sparse elements	<i>The International Arab Journal of Information Technology.</i>	2004 Vol. 1 No. 2,
4.	Incremental Learning of Auto-Association Multilayer Perceptrons Network. pp 16-20.	The International Arab Journal of Information Technology.	2006 Vol. 3 No. 1
5.	Adaptive Quantum lossless compression.	<i>journal of Applied Sciences</i>	2007 Vol.7 No. 22
6.	Quantum Computing for Solving a System of Nonlinear Equations	<i>International Arab Journal of Information Technology.</i>	2007, Vol. 4, No. 3
7.	Unconditionally Secure	<i>Enformatika,</i>	2007



	Quantum Payment System.	<i>International Journal of Applied Mathematics and Computer Science,</i>	vol 4, no.2,
8.	Discrete Quantum Walk for solving Nonlinear Equations over finite fields.	<i>Jordan Journal of applied Science.</i>	2008. Vol.10 no.1
9.	A New Quantum Key Distribution Protocol.	<i>American Journal of Applied Sciences</i>	2008 Vol. 5 No. 2
10	The Constraints of Object-Oriented Databases.	<i>Int. J. Open Problems Compt. Math.</i>	2008, Vol. 1, No. 1
11	Computer Virus Strategies and Detection Methods.	<i>Int. J. Open Problems Compt. Math.,</i>	2008 Vol. 1, No. 2.,
12	Integer and Vector Multiplication by Using DNA.	<i>Int. J. Open Problems Compt. Math.,</i>	2008, Vol. 1, No. 2,
13	Identifying DNA Splice Sites using Patterns Statistical Properties and Fuzzy Neural Networks	<i>EXCLI Experimental and Clinical Sciences Journal</i>	2009 Vol 8
14	A Framework to Automate the Parsing of Arabic Language Sentences	<i>International Arab Journal of Information Technology</i>	2009, vol.6 No. 2.
15	Detecting Metamorphic Viruses by using Arbitrary Length of Control Flow Graphs and Nodes Alignment..	<i>Ubiquitous Computing and Communication Journal , Special Issue on Bioinformatics and Image,</i>	2009



16	A Comparison between Three Neural Network Models for Classification Problems	<i>Journal of Artificial Intelligence,</i>	2009 vol 2
17	Enhancement of the Face Recognition Using a Modified Fourier-Gabor Filter,	<i>Int. J. Advance. Soft Comput. Appl.,</i>	2009, vol. 2
18	Fast Protein Classification by Using the Most Significant Pairs:133-140.	<i>EXCLI Experimental and Clinical Sciences Journal,</i>	2010 Vol. 9
19	Cancer Diagnosis Using Fuzzy Radial Basis Functions Network.	<i>Universal Journal of Computer Science and Engineering Technology.</i>	2010 Vol. 12
20	A new iris localization method based on the competitive chords,	<i>Signal, Image and Video Processing Journal</i>	2012, Volume 6, Issue 4
21	New Empirical Nonparametric Kernels for Support Vector Machine Classification	Applied Soft Computing, Elsevier	2013 Vol. 13
22	Simplified approach for generating integrity tests in distributed database systems	Int. J. Innovation and Learning	2013 Vol.13 No.4
23	Texture Recognition by using a Non-Linear Kernel.,	<i>Int. J. of Computer Applications in Technology</i>	2013, Vol. 48, No. 3
24	Efficient DNA Motifs	International Journal of	2013,



	Discovery using Modified Genetic Algorithm	Computational Intelligence and Applications,	Vol. 12, No. 3
25	Simplified Features for Email Authorship Identification,	International Journal of Security and Networks	2013, Vol.8, No.2
26	A Hybrid Algorithm Using a Genetic Algorithm and Cuckoo Search Algorithm to Solve the Traveling Salesman Problem and its Application to Multiple Sequence Alignment. .	International Journal of Advanced Science and Technology,	2013, Vol.61
27	Enhanced Metaheuristic Algorithms for the Identification of Cancer MDPs	<i>I.J. Intelligent Systems and Applications,</i>	2014 Vol.6
28	A New Efficient Meta-Heuristic Optimization Algorithm Inspired by Wild Dog Packs	International Journal of Advanced Science and Technology,	2014 Vol. 61
29	A Modified Optimization Algorithm Inspired by Wild Dog Packs	<i>International Journal of Science and Advanced Technology</i>	2014 Vol. 4 No. 8
30	Enhanced Metaheuristic Algorithms for the Identification of Cancer MDPs,	<i>International Journal of Intelligent Systems and Applications (IJISA)</i>	Vol. 6, No. 2, 2014
31	An Efficient Algorithm for Finding a Fuzzy Rough Set Reduct Using an Improved Harmony Search	<i>International Journal of Modern Education and Computer Science,</i>	Vol. 7, No. 2, 2015.
32	Power aware Ant colony routing algorithm for	International Journal of Software	2015 Vol. 9 No. 12,



	mobile ad-hoc networks,	Engineering and Its Applications	
33	Quantum Meta-Heuristic Algorithm Based on Harmony Search	International Journal of Engineering Science Invention,	2015 Vol.4 No. 10
34	KP-Trie Algorithm for Update and Search Operations	The International Arab Journal of Information Technology,	2016 Vol. 13, No. 6
35	A new algorithm for Predicting Metabolic Pathways	International Journal of Engineering Science Invention	2016 Vol. 5, No. 8
36	Minimal Walking Technicolor Simulation using Generative Adversarial Networks (GANs)	International Journal of Emerging Trends in Engineering Research	2020 Vol. 8, NO.3, March, 759 - 762
37	Unique and Universal Proteins in Human Genome	International Journal of Online and Biomedical Engineering (iJOE)	2020 Vol. 16, No. 11, pp:45-56
38	The Recognition of Holy Qur'an Reciters Using the MFCCs' Technique and Deep Learning	Advances in Multimedia	2023 Volume 2023, pp1-14
39	An Algorithm for Arabic Semantic Matching Using New WordNet Tree	Frontiers of Human Centricity in the Artificial Intelligence-Driven Society	2024
40	Arabic sentiment analysis of Monkeypox using deep neural network and	Social Network Analysis and Mining	2024 14 (1), 30



	optimized hyperparameters of machine learning algorithms		
41	Arabic sentiment analysis for ChatGPT using machine learning classification algorithms: a hyperparameter optimization technique	ACM Transactions on Asian and Low-Resource Language Information Processing	2024 Volume 2023, pp40-48
42	Exploring the Effectiveness of Different Embedding Methods for Toxicity Classification	Artificial Intelligence and Economic Sustainability in the Era of Industrial	2024 Volume 2024, pp20-30
43	Intelligent Edge: The Intersection of Artificial Intelligence and Digital Communication—A Survey	Artificial Intelligence and Economic Sustainability in the Era of Industrial	2024 Volume 2024, pp30-42
44	Optimizing Performance in Wireless Sensor Networks through a Multi-Objective Rendezvous Points Selection Algorithm.	International Journal of Interactive Mobile Technologies	2024 18 (18)
45	Evaluation of Cloud Computing for Advancement LMS through Different Environments.	International Journal of Advances in Soft Computing & Its Applications	2024 16 (3)
46	Arabic fake news detection using hybrid contextual	International Journal of Electrical & Computer	(2088-8708) 15 (1)



	features.	Engineering	
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Books:

#	Book Title	Publisher	Year
.1	C# for Object Oriented and Visual Programming,	عالم الكتب الحديث للتوزيع والنشر الاردن.	2008
.2	Visual Basic.NET	دار وائل للتوزيع والنشر، الاردن	2009

Conferences:

#	Paper Title	Organizing Institution	Conference
.1	<i>INTEC 2000</i>	UPM University	LUC and RSA Methods for Cryptosystems
.2	<i>International Conference on Mathematics and its Applications in the New Millennium</i>	MMU University	., Elliptic Curve Arithmetic Operations Over $GF(2^n)$ and $GF(P)$ For Cryptosystems Purposes, , 2000,
.3	<i>, International Arab Conference on Information Technology</i>	ACIT'2003	Cryptography Based on Discrete Logarithm Problem Over a New Group
.4	the International Conference on Applied Computing,	IADIS	Sparse Elliptic Curve Cryptography To Improve The Electronic Payment Systems..
.5	<i>Proceedings of the 4th</i>	CSIT2006	Discrete Quantum



	<i>International Multiconference on Computer Science and Information Technology</i>		Walk for solving Nonlinear Equations over finite fields.
.6	<i>International Conference on Computer, Information, and Systems Science, and Engineering, Barcelona, Spain</i>	WASET	Unconditionally Secure Quantum Payment System
.7	<i>Communication Software and Networks ICCSN,</i>	IEEE	Metamorphic Viruses Detection Using Artificial Immune System.
.8	<i>International Conference on Data Mining and Knowledge Engineering, Rome, Italy</i>	<i>World Academy of Science, Engineering and Technology</i>	Integration of Support Vector Machine and Bayesian Neural Network for Data Mining and Classification, <i>ICDMKE 2010,</i>
.9	International Conference on Computer Vision, Image and Signal Processing, Franch, Paris	<i>World Academy of Science, Engineering and Technology</i>	Improving Protein-Protein Interaction Prediction by Using Encoding Strategies World Academy of Science, Engineering and Technology and Random Indices, ICCVISIP:
.10	ICCCISE 2013: International Conference on Computer, Communicati	WASET	Intrusion Detection Using a New Particle Swarm Method and Support Vector



	on and Information Sciences, and Engineering,		Machines,.
11	4th International Conference on Signal and Image Processing CSIP 2015, Suzhou, China,	CSIP	Face Recognition Using Fuzzy Clustering and Kernelized Lest Square,
12	ICBBBCB 2016 : 18th International Conference on Bioinformatics, Biomedicine, Biotechnology and Computational Biology, 2016.	WASET Boston, USA, April 25 - 26,	An Accurate Method for Phylogeny Tree Reconstruction Based on a Modified Wild Dog Algorithm,
13	Computing the Similarity and the Diversity in the Species Based on Cronobacter Genome	ICMLDA 2017	International Conference on Machine Learning and Data Analysis San Diego, USA
14	LARGE SCALE AND REAL TIME CLASSIFIERS FOR SOCIAL MEDIA TEXT	ICAC 2019	Proceedings of 180th The IRES International Conference 22, 23rd
15	Comparison between	WASET	ICAIDM 2019



	XGBoost, LightGBM and CatBoost Using a Home Credit Dataset		International Conference on Artificial Intelligence and Data Mining
16	Predicting future citation counts using machine learning	ACIT2021	International Arab Conference on Information Technology, ACIT
17	Improving VANET's performance by incorporated fog-cloud layer (FCL)	ACIT2021	International Arab Conference on Information Technology, ACIT
18	Improving the Face Recognition Performance Using Gabor and VGGFace2 Features Concatenation	2022 6th International Conference on Information Technology InCIT	2022 187-190
19	A Comparative Study of Transformers Embeddings for Question Answering in Arabic Private Documents	2023 IEEE/ACIS 8th International Conference on Big Data, Cloud Computing	2023
20	Enhancing Cybersecurity with Transformers: Preventing Phishing Emails and Social	2024 IEEE Conference on Dependable and Secure Computing (DSC),	2024 31-36



	Media Scams		
21	A Comprehensive Review of VANET Attacks: Predictive Models, Vulnerability Management, and Defense Selection	2024 25th International Arab Conference on Information Technology (ACIT), 1-9	2024

Supervision of Theses:

#	Year	University	Thesis Title	Student Name
.1	2010	Al Al-Bayt	Improving Iris recognition by using Fuzzy neural networks	kawther hawamedda
.2	2013	Zarqa	Enhanced Metaheuristic Algorithms for the Identification of Cancer MDPs	Noura Alfayoumi
.3	2014	Zarqa	An Improved Algorithm for the Traveling Salesman Problem and its Application in Bioinformatics	Ala'a Abu Srhan



Community Service Activities

#	Duartion	Activity
1	2010	Refereeing JubiTech7 competition, jubilee school is annual technology exhibition in which students works in computer programming, design and other IT.

Personal Information

Name	Essam Al Daoud		
Place and Date of Birth	Ar Ramtha November 10, 1970		
Nationality	Jordanian		
Marital Status	Married		
Address	Computer Science Department, Zarqa University, Jordan.		
Work Tel No.	1525	فرعي	0096253821100
Mobile:	00962-796680005		
Postal Address	Computer Science Department, Zarqa University, Jordan.		