CV

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EDUCATION

Dec. 1995	Ph.D. in Computer Science, University of Leeds, UK.
Dec. 1985	MS. in Information Systems, University of Detroit, USA.
May 1983	BS in System Engineering and Cybernetics, University of Belgrade.

WORK EXPERIENCE

April, 2005 – present	Associate Profossor, Dept. of Computer Information Systems, University of Jordan, Amman.
October 2006 – 2008	Vice Dean, King Abdulla II School for Information Technology Faculty, University of Jordan, Amman - Jordan.
Sep. 2003 – Sep. 2005	Head of Business Information System (BIS) dept.
July 2000 – Sep. 2002	Dean Assistant for student affairs, KASIT, UOJ.
March 99 – Oct. 99	Assistant of the Dean of Postgraduate Studies, UOJ.
Feb. 96 –April 05	Assistant Professor, Dept. of Computer Information Systems, University of Jordan, Amman.
Aug. 90 – Aug. 91	Teacher Assistant, Dept. of Computer Science, University of Jordan, Amman.
July 88 - July 90	Lecturer, Programmer and Systems Analyst, Al Khawarizmi Institute for computer science, Riyadh, Saudi Arabia.

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| May 86 - May 88 | Serving in the Jordanian forced army, Dept. of Survey. |

TEACHING

Taught Courses

1. Computers & Information Technology
2. Computer Graphics
3. GIS (Geographic Information Systems)
4. MIS (Management Information Systems)
5. Multimedia
6. Digital Image Processing
7. Data Mining
8. different Programming Languages including:
    Visual BASIC, C, C++, JAVA.

Taught Training Courses

Information Security, E-Commerce, GIS and MIS.

PUBLICATIONS

Papers

1. Applying Efficient Techniques for Finding Nearest Neighbors In GIS Applications, Proceedings of GIS Research UK Conference, Newcastle upon Tyne, UK, 1995.

2. New Methods for the Initialization of Clusters, Pattern Recognition Letters, Vol. 17, No. 5, 1996, pp. 451-455.

3. Efficient Techniques for WEB images, workshop in Information Technology, University of Jordan, Amman, 1999.

4. Bayesian based probabilistic model for classifying objects with unknown attribute values, Dirasat, Unversity of Jordan, Vol 27, No. 2, 2000, pp. 201-214.

5. A numerical simulation model for extraction 3-D information from 2-D image object, Advances in modelling & analysis (AMSE), France, Vol. 43, No. 3, 4, 2000, pp. 25-40.

6. A fast method for finding nearest neighbours in 2-D space, Abhath al- Yarmouk, Jordan, Vol. 13, No. 2, 2004, pp. 327-333.

7. An efficient hybrid algorithm for finding nearest neighbours in multiple dimensions, Advances in modelling & analysis (AMSE), France, Vol. 47, No.5, 2004, pp. 59-70.

8. A simple sign-language finger spelling system, Abhath al- Yarmouk, Jordan, Vol. 14, No. 1, 2005, pp. 259-265.

9. A new algorithm for cluster initialization, Enformatika Journal, Vol. 4, No. 2, 2005, pp. 74-76.

10. A Hybrid Heuristic Algorithm for Solving the P-Median Problem, Journal of computer Science, Special Issue on Intelligence, communication and computer interaction, 2005, pp.80-83

11. A Genetic Algorithm for solving the P- Medium Problem, European Simulation and Modelling Conference, 24-26 October, Porto, Portugal, 2005.

12. An Efficient Database System for Utilizing GIS Queries, International Joint Conference on Computer, Information, Systems Sciences and Engineering (CISSE 05), University of Bridgeport, USA, Dec. 10 – 20, 2005, pp. 271-275.

13. Techniques for Image Enhancement and Noise Removal in the Spatial Domain, WSEAS Transactions on Computers, Vol. 5, No. 5, 2006, pp. 1047-1052.

14. A New Steganography Algorithm for Text Hiding in the Frequency Domain, AMSE (**Advances B**) Journal, Vol. 49, No. 3, pp. 53-66, 2006.

15. Head Recognition System, The 4th International Multi-conference on Computer Science and Information Technology, Applied Science University, Amman, Jordan, April 5-7, 2006 pp. 175-185.

16. New Techniques in the Implementation of the Partial Image Encryption, The 4th International Multi-conference on Computer Science and Information Technology, Applied Science University, Amman, Jordan, April 5-7, 2006, pp. 343-353.

17. A Comparative Image Recognition Study using Fuzzy Clustering, Weighted Euclidean Distance and Cross Correlation Techniques, 2nd Jordanian International Conference on Computer Science and Engineering (JICCSE2006), 5-7 December, 2006, pp. 203-209.

18. New Techniques for Improving H.263 Videoconferencing, Abhath al- Yarmouk, Jordan, Vol. 16, No. 1, 2007, pp. 147-161.

19. A Proposed Fast Fuzzy C-Means Algorithm, WSEAS Transactions on Systems, Vol. 6, No. 6, 2007, pp. 1191-1195.

20. Integration of School Mapping Modelling for An Educational Decision Support System: Jordan Case Study, AMSE (**Modelling C**) Journal, Vol. 68, No. 3, pp. 13-34, 2007.

21. A K-D tree Approach for Cluster Initialization, AMSE (**Advances B**) Journal, Vol. 50, No. 4, pp. 52-63, 2007.

22. Preparing Jordanian Teachers to Face the Challenges in Applying Information and Communication Technology in Education, LINK, Dead Sea, Jordan, 2007.

23. New Efficient Strategy to Accelerate K-Means Clustering Algorithm, American Journal of Applied Sciences, Vol. 5, No. 9, pp. 1247-1250, 2008.
24. A Fast Distance-Based Algorithm to Detect Outliers, Journal of Computer Science, Vol. 3, No. 12, pp. 944-947, 2007.
25. Efficient method for Assigning Students to Proper Groups, European Journal of Scientefic Research Research, Vol. 21, No. 2, pp. 249-258, 2008.
26. Fast Algorithms for Outlier Detection, Journal of Computer Science, Vol. 4, No. 2, pp. 129-132. 2008.
27. An Efficient Approach for Computing Silhouette Coefficients, Journal of Computer Science, Vol. 4, No. 3, pp. 252-255. 2008.
28. Fast K-MEANS Clustering Algorithms, Proceedings of The International Conference on Modelling and Simulation, (MS'08 JORDAN), PETRA (Jordan), 18-20 November, pp. 23-25, 2008.
29. An Effective Clustering-Based Approach for Outlier Detection, European Journal of Scientefic Research, Vol. 28, No. 2, pp. 310-316, 2009.
30. Load Balancing of Distributed Systems Based on Multiple Ant Colonies Optimization, American Journal of Applied Sciences, Vol. 7, No. 3, pp. 433-438, 2010.
31. New Outlier Detection Method Based on Fuzzy Clustering, WSEAS Transactions on Information Science and Applications, Vol. 7, No. 5, pp. 681-690, 2010.
32. An Efficient Fuzzy K-Medoids Method, World Applied Sciences Journal, Vol. 10, No. 5, pp. 574-583, 2010.
33. A New algorithm for Automatic extraction of GIS layers, 7th International Multi-Conference on Systems, Signals and Devices (SSD'10), Amman, Jordan, June, 2010.
34. An Efficient Generalized Multi-Fault Tolerant Mapping Algorithm onto a 3-D Tours Interconnection Topology, World Applied Sciences Journal, accepted, Vol. xx, No. x, pp. xxx-xxx, 2010.

Books
1. Computer Graphics, The Open University of Jerusalem, 1998.
2. Computers and Software packages, Dar Wail, Amman, Jordan, 2002.
3. Visual Basic6, Dar Wail, Amman, Jordan, 2005.
4. Advanced Topics in Computer Skills, Dar Wail, Amman, Jordan, 2006.
5. Office 2007, Zamzam Publishing, Amman, Jordan, 2008.

Attending Workshops and Certificates
- Introduction to Rational Rose, Amman 2000.
- Rational Object-Oriented Analysis and Design using UML, Amman 2000.
- Workshop on Distance Learning, American Banking Association (ABA), Amman, 2000.
- Security of Credit Cards, ABA, Amman, 2001.
- Basic Web Technology Skills for Courseware Development, Beirut, 2001.
- Microsoft crash course on Dot Net, Dubi, June, 2003.
- ICDL certificate, 2004.

Post-graduate Supervision
- supervisor of 12 MSc Students (Thesis).

OTHER ACTIVITIES

- Middle East Informatics Development Group Coordinator, The Drying Lakes Project, Unesco, Paris.
- Head and member of several tender commities.
- Committee Member, Developing textbooks, Ministry of Education, Amman.
- Committee Member, Authorizing Computer Documents in Courts, Royal Scientific Society, Amman.
- Committee Member, E-Learning/Distance Learning Project, Jordan University.
- Consultant: Ministry of Education (E- Learning and Digital School Mapping Projects) 2000 - 2004.