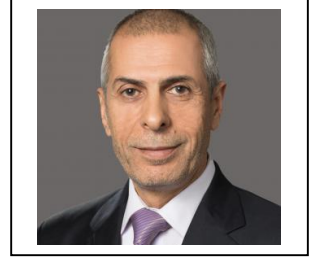


Date: 19/3/2023

MAHMOUD AHMAD OMARI



PERSONAL INFORMATION

Title: Teaching Faculty Member

Academic Rank: Associate Professor

Date & Place of Birth: October, 14, 1962, Irbid

Nationality: Jordanian

Address: Al-Ghaba Neighborhood, Tariq Area, Amman, Jordan

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ACADEMIC QUALIFICATIONS

Degree	Major	Duration (From-To)	University	Country
Ph. D.	CS	1989-1992	Illinois Institute of Technology	U.S.A
M.Sc.	CS	1987-1988	George Washington University	U.S.A
B.Sc.	Cs	1980-1984	Yarmouk University	Jordan

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TEACHING EXPERIENCE				
Duration	Rank	Institution	Department/Faculty	Country
2017-till now	Associate Professor	Amman Arab University	Computer Science/ Faculty of Computer Sciences and Informatics	Jordan
2016-2017	Associate Professor	Al-Baha Private College of Science	Computer Engineering	K.S.A
2014-2015	Associate Professor	Princes Sumaya University for Technology	Management Information Systems/ Faculty of Business	Jordan
2008-2014	Associate Professor	Applied Science University	Computer Science/ Faculty of Information Technology	Jordan
2006-2008	Associate Professor	Mu'tah University	Department of Information Technology/ Faculty of Science	Jordan
2004-2006	Associate Professor	Irbid National University	Computer Science/ Faculty of Information Technology	Jordan
2003-2004	Associate Professor	Mu'tah University	Computer Science/ Faculty of Science	Jordan
1993-2003	Assistant Professor	Mu'tah University	Computer Science/ Faculty of Science	Jordan

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OTHER EXPERIENCE				
Duration	Rank	Institution	Department/Faculty	Country
2016-2017	Vice-Dean for Academic Affairs	Al-Baha Private College of Science	Al-Baha Private College of Science	K.S.A
2009-2011	Chairman of The Department of Computer Science,	Applied Science University	Faculty of Information Technology	Jordan
2004-2006	Dean of The Faculty of Science and Information Technology	Irbid National University	Faculty of Information Technology	Jordan
2003-2004	Chairman of The Department of Information Technology	Mu'tah University	Department of Information Technology/ Faculty of Science	Jordan
1998-1999	Vice-Dean and Chairman of The Educational Science Department	Mu'tah University (Ma'an Branch)	Faculty of Science and Arts	Jordan
1995-1997	Chairman of The Computer Science Department	Mu'tah University	Computer Science/ Faculty of Science	Jordan

PUBLICATIONS

JOURNALS

- Shehab, Mohammad, Laith Abualigah, **Mahmoud Omari**, Mohd Khaled Yousef Shambour, Mohammad Alshinwan, Hayfa Y. Abuaddous, and Ahmad M. Khasawneh. "Artificial neural networks for engineering applications: a review." In *Artificial Neural Networks for Renewable Energy Systems and Real-World Applications*, pp. 189-206. Academic Press, 2022.
- Otair, Mohammed, Somaya Zacout, Laith Abualigah, and **Mahmoud Omari**. "Hybrid Arabic classification techniques based on naïve Bayes algorithm for multidisciplinary applications." In *Artificial Neural Networks for Renewable Energy Systems and Real-World Applications*, pp. 239-265. Academic Press, 2022.
- Amjad Al-Jourishi and **Mahmoud Omari**, "Handwritten Arabic Characters Recognition Using a Hybrid Two-Stage Classifier", (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 11, No. 6, 2020, pp. 143-48.
- **Mahmoud Omari**, "Routing Capabilities of Mesh-Hypercube Network," *International Journal of Science and Applied Information Technology*, Vol. 8, No 6, pp. 92-98.
- Mahmoud **Omari**, "A Hybrid Image Compression Tanique Using DFT and DCT," *International Journal of Science and Applied Information Technology*, Vol. 8, No 6, pp. 104-109.
- **Mahmoud Omari**, "Adaptive Algorithms for Wormhole-Routed Single-Port Mesh-Hypercube Network," *IJCSI International Journal of Computer Science Issues*, Vol. 11, No 1, January 2014, pp. 66-73.
- Faiz Al Shrouf, Hesham Abusaimh, Khalil Al Shqeerat and **Mahmoud Omari**, "Evaluating Time Performance Optimization Analysis for Mobile Agent Message Communication Using Assignment Computing Agent," *The Journal of Applied Sciences*, Vol. 12, No. 12, 2012, pp. 1290-1296.
- **Mahmoud Omari**, "Packet Routing in Mesh-Hypercube Network," *Abhath Al-Yarmouk Journal: Basic Science& Engineering Series*, published by Yarmouk University, Vol. 17, No. 1(B), 2008, pp. 177-189.
- Bassam Al-Mahadeen and **Mahmoud Omari**, "A Broadcast Algorithm for All-Port Wormhole-Routed Mesh-Hypercube Network", *Information Technology Journal*, vol.3, no.3, pp.283-289, 2004.
- Bassam Al-Mahadeen and **Mahmoud Omari**, "Adaptive Wormhole Routing in Mesh-Hypercube Network", *Journal of Applied Sciences*, vol.4, no.4, 2004, pp.568 – 574.
- **Mahmoud Omari**, "Efficient Sorting and Searching Using the Mesh Topology," *Abhath Al-Yarmouk Journal: Basic Science & Engineering Series*, published by Yarmouk University, Vol.12, No. 2, 2003, pp. 1-16.
- **Mahmoud Omari**, "Mesh-Hypercube: A Network Topology for Parallel Systems," *Mu'tah Lil-Buhuth Wad-Dirasat (Mu'tah University Journal for Research and Studies): Natural and Applied Sciences Series*, Vol. 18, No. 1, 2003, pp. 37-60.
- **Mahmoud Omari** and Mohammed Mahafzah. "Fault-Tolerant Routing in Hypercube Networks," *Al-Manarah Research Journal*, published by AL al-bayt University, Vol. 7, No. 1, May 2001, pp. 49-60.
- **Mahmoud Omari** and Hani Abu-Salem. "Routing Strategies for Binary Tree-Hypercube Network," *Al-Manarah Research Journal*, published by AL al-bayt University, Vol. 7, No. 1, May 2001, pp. 27-48.
- F. Luccio, M. Mahafzah, **M. Omari**, and L. Pagli, "Masked Interval Routing: a New Routing Scheme," *The Computer Journal*, Vol. 43, No.2, May 2000, pp. 121-129.

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- Hani Abu-Salem, **Mahmoud Omari**, and Martha Evens, “Stemming Methodologies Over Individual Query Words for an Arabic Information Retrieval System,” *Journal of the American Society for Information Science (JASIS)*, Vol.50, No.6, May 1999, pp. 524-529.
- **Mahmoud Omari** and Hani Abu-Salem. “Tree-Hypercube: A Multiprocessor Interconnection Topology,” *Abhath Al-Yarmouk Journal: Basic Science & Engineering Series*, published by Yarmouk University, Vol. 6, No. 2, 1997, pp. 9-26.

CONFERENCES

- **M. Omari**, “Routing Capabilities of Mesh-Hypercube Network,” The 3rd *International Computer Sciences and Informatics Conference (ICSIC 2019)*, Amman Arab University, Amman, Jordan, April 2-4, 2019.
- Aesha Amhammed and **M. Omari**, “A Hybrid Image Compression Technique Using Discrete Fourier Transform and Discrete Cosine Transform,” The 3rd *International Computer Sciences and Informatics Conference (ICSIC 2019)*, Amman Arab University, Amman, Jordan, April 2-4, 2019.
- B. Al-Mahhadeen and **M. Omari**, “Fault-Free Point-to-Point Routing in Mesh-Hypercube Networks,” *Proceedings of The International Conference on Information Technology and Natural Sciences (ICITNS)*, Al-Zaytoonah University, Amman, Jordan, October 19-21, 2003.
- **Mahmoud Omari**, “Routing in Quad Tree-Hypercube Networks,” *Proceedings of The 2000 ACM Symposium on Applied Computing (SAC’00)*, Vol. 2, pp. 677-681. Como, Italy.
- **Mahmoud Omari** and Mohammed Mahafzah. "Fault-Tolerant Routing in Hypercube Networks," *Proceedings of The 1999 ACM Symposium on Applied Computing (SAC’99)*, pp. 481-485. February 28-March 2, 1999. The Menger, San Antonio, Texas, U.S.A.
- F. Luccio, M. Mahafzah, **M. Omari**, and L. Pagli, “Routing with the Use of Masks,” *Proceedings of The 5th Colloquium on Structural Information and Communication Complexity (SIROCCO’98)*, pp. 188-200. June 22-24, 1998, Amalfi, Italy. Carleton Scientific 1998.
- **Mahmoud Omari** and H. Abu-Salem, “Routing Algorithms for Tree-Hypercube Networks,” *Proceedings of The 1998 ACM Symposium on Applied Computing (SAC’98)*, pp. 85-89. February 27- March 1, 1998, Atlanta, Georgia, USA.
- Hani Abu-Salem and **Mahmoud Omari**. “Comparing Words, Stems, and Roots as Index Terms Using a **Term** Weighting Scheme in an Arabic Information Retrieval System,” *Proceedings of the IEEE Second Annual International Conference on Electronics, Circuits, and Systems (ICECS’95)*, pp. 267-269. Amman, Jordan, December 18-21, 1995.

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BOOKS

Author/s (In Order)	Title	Publisher	Edition	Date
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MEMBERSHIPS OF SCIENTIFIC AND PROFESSIONAL SOCIETIES

UNIVERSITY COMMITTEES

Member of Scientific Research and Graduate Studies Committee, College of Computer Sciences and Informatics, Amman Arab University, Jordan

Member of Curriculum Committee, College of Computer Sciences and Informatics, Amman Arab University, Jordan

Member of Quality Assurance Committee, College of Computer Sciences and Informatics, Amman Arab University, Jordan

Member of the Higher Committee for Quality Assurance and Accreditation, Al-Baha Private College of Science, Al-Baha, The Kingdom of Saudi Arabia

Head, Quality Assurance Committee, Faculty of Information Technology, Applied Science University, Jordan

Head, Faculty Development Committee, Faculty of Information Technology, Applied Science University, Jordan

Head, Quality Assurance Committee, Faculty of Information Technology, Applied Science University, Jordan

Head, Curriculum Committee, Faculty of Information Technology, Applied Science University, Jordan

Head, Accreditation Committee, Faculty of Information Technology, Applied Science University, Jordan

Member of The Faculty Employment and Promotion Committee, Faculty of Information Technology, Applied Science University, Jordan

Member of The Editorial Board of Mu'tah University Research Journal, Mu'tah Lil-Buhuth Wad-Dirasat (Natural and Applied Sciences Series), Deanship of Scientific Research, Mu'tah University, Jordan

WORKSHOPS ATTENDED

- MIS in Education and Higher Education: The Challenges and Opportunities. Workshop hosted by National Center for Human Resources Development, Amman, January 25, 2004.
- “Get Connected UK Jordan IT Initiative” Workshops sponsored and organized by the British Council/Embassy in Jordan. Workshop 1: IT Curriculum Development, November 2-3, 2002.

WORKSHOPS OFFERED

As part of the activities of the College of Computer Science and Informatics at AAU in serving the community, I gave a workshop to a group of school-students from the area of Abu Nusir. Participants were introduced to the importance of computer programming and why should school students learn programming. The workshop included a set of activities that promote the development of students’ skills in problem solving and critical thinking. May 5, 2018

Workshop at the Jordan/Institute of Public Administration (JIPA). Workshop on Management Information Systems (MIS) and Computer skills training, part of training courses on “Information Systems and Office Management” for trainees from various public sector departments in Karak Governorate, held at Mu’tah University, September 5, 6, 11, 12, 2001.

Workshop at the Jordan/Institute of Public Administration (JIPA). Workshop on Management Information Systems (MIS) and Computer Skills training, part of training courses on “Information Systems and Office Management” for trainees from various public sector departments in Ma’an Governorate, held at Mu’tah University-Ma’an Branch, July 21, 24, 1999.

RESEARCH INTERESTS

Parallel Computing and Interconnection Networks, Image Processing, Natural Language Processing, Machine Learning, IoT Applications

LANGUAGES

Arabic and English

OTHER COMMUNITY ACTIVITIES

- Member/chairperson of several Accreditation Committees for accrediting CS and CIS study programs at several Jordanian Universities during the period 1999-2013. The Higher Education Accreditation Commission (HEAC), Jordan.
- Committee chairperson in charge of laying down accreditation bylaw for Computer Graphics curriculum, The Accreditation Board, Ministry of Higher Education, Jordan, August 2007.
- Lecturer at the Jordan/Institute of Public Administration (JIPA).

AWARDS RECEIVED

- Recognition of service award in appreciation for contributions to ACM SAC2000 Track Co-Chair of the Parallel and Distributed Computing, March 2000.

GRADUATE STUDENTS SUPERVISION

Student Name	Thesis Title
<i>Amjad Al-Jourishi</i>	Handwritten Arabic Alphabet Recognition Using a Combination of Support Vector Machine and Neural Network <i>M.Sc. thesis defended on January 2020, Department of Computer Science, College of Computer Sciences and Informatics, The Amman Arab University, Amman, Jordan.</i>
<i>Aml M. Hashem</i>	Hybrid Image Compression Technique Using Discrete Fourier Transform and Discrete Wavelet Transform <i>M.Sc. thesis defended on May 2018, Department of Computer Science, College of Computer Sciences and Informatics, The Amman Arab University, Amman, Jordan.</i>
<i>Aesha A. H. Ambammed</i>	Hybrid Image Compression Technique Using Discrete Fourier Transform and Discrete Cosine Transform <i>M.Sc. thesis defended on May 2018, Department of Computer Science, College of Computer Sciences and Informatics, The Amman Arab University, Amman, Jordan.</i>
<i>Tabseen A. Al-Ramadin</i>	Reduction Technique For Instance-Based Learning Using Distributed Genetic Algorithms <i>Ph.D. thesis defended on Spring 2009, Department of Computer Information Systems, Faculty of Information Technology, The Arab Academy for Banking and Financial Sciences, Amman, Jordan.</i>
<i>Bassam Mohammad Al-Mahadeen</i>	Routing in Mesh-Hypercube Networks <i>Ph.D. thesis defended on Winter 2004, Department of Computer Information Systems, Faculty of Information Technology, The Arab Academy for Banking and Financial Sciences, Amman, Jordan</i>

REFERENCES

Husam Ahmad Al-Hamad, Dean, Faculty of Computer Sciences and Informatics, Amman Arab University, Jordan, <hhamad@aau.edu.jo>

Professor Mohammad Otair, Faculty of Computer Sciences and Informatics, Amman Arab University, Jordan, <otair@aau.edu.jo>