

Prof. Mohammad Sulieman Qatawneh

Personal Information

Date of Birth: 12-11-1964.

Place of Birth: Karak – Jordan.

Address: University of Jordan, King Abdullah II School for Information Technology-
Department of Computer Science, 11942, Amman, Jordan.

Languages: Arabic, English, Russian, Italian.

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Academic Background

1996 University of Kiev – Ukraine. PhD in Computer Engineering. Thesis title: "Methods and Means of Efficiency Improvement for Scale Computing Systems with Tree- Hypercube Topology".

1988 University of Donesk, Donesk - USSR, Master in Computer engineering. Thesis title: "Display Processor for Output of Vector Images".

Research Interests

Routing Algorithms, Parallel and Distributed Systems, Image Processing, Network Multimedia, Wireless Networks and Wireless Sensor Networks.

Computer Skills

Concurrent and Distributed Systems Development: Socket Programming, Java RMI, Unix/Windows Inter Process Communication (IPC).

Programming Languages: C/C++, Java, VB.Net and UNIX Tools/Scripting.

Operating Systems: Amoeba Distributed Operating System, Linux, Platforms.

Academic Positions

- ❖ Full Professor, King Abdullah II School for Information Technology, University of Jordan, 2012- present.
- ❖ Associate Professor, King Abdullah II School for Information Technology, University of Jordan, 2008 – 2012.

- ❖ Assistant Professor, King Abdullah II School for Information Technology, University of Jordan, August 2007 – August 2008.
- ❖ Assistant Professor, Al-Zaytoonah University, 1997 – 2007.

Administrative Positions

- ❖ Dean of King Abdullah II School for Information Technology, University of Jordan, 2012 - Present.
- ❖ Deputy Dean, King Abdullah II School for Information Technology, University of Jordan, 2009 - 3-9-2012.
- ❖ Head of the Computer Science Department, University of Jordan, 2007-2009.
- ❖ Head of the Department of Computer Science, Al-Zaytoonah University, Jordan, 1998-2000.
- ❖ Head of the Department of Computer Information System, Al-Zaytoonah, Jordan, 2001 -2004

Taught Courses

- Computer Networks.
- Network Security.
- Operating System.
- Distributed Operating System.
- Distributed Systems.
- Image Processing.
- Network Multimedia.
- Programming Languages, Design and Implementation.
- Parallel Computing.
- Computer Architecture.
- Logic Design.
- Computer Graphics.
- Operation Research.
- Data Structure and Algorithms.
- Computer Skills.
- Web Design.
- Graduation Projects.

Refereed Journal Papers

- 1- **Qatawneh, M.**, Embedding Linear array onto tree-hypercube network, European Journal of Scientific Research, Vol. 10, No. 2, 2005.
- 2- **Qatawneh, M.**, Adaptive Fault Tolerant Routing algorithm in Tree-Hypercube Multicomputer, Journal of Compute Science 2(2): 124-126, 2006.

- 3- Wesam Almobaideen, **Mohammad qatawneh**, azzam sliet, Imad Salah and Saleh Al-sharaeh. Efficient Mapping Scheme of Ring Topology onto Tree-Hypercubes, Journal of Applied Sciences 7 (18): 2666-26770, 2007.
- 4- **Mohammad Qatawneh**, Wesam Almobaideen, Azzam Sliet, Emad Qaddura, Orayb Meqdady, Shatha Kamel Al-Asir., PFR: Priority-based Fragments Retransmission for IEEE 802.11 Ad-hoc Wireless Networks, European Journal of Scientific Research, 2008.
- 5- **Mohammad Qatawneh**, Yahya, A. A., Automatic Vehicle Tracking Software Model and Geographic Information System, Abhath Al-Yarmouk Journal, Pure Science and Engineering Series, Jordan-Irbid, Vol. 17, No. 1 2008.
- 6- Ahmad Sharieh, **Mohammad Qatawneh**, Wesam Almobaideen, Azzam Sleit., Hex-Cell: Modeling, Topological Properties and Routing Algorithm, European Journal of Scientific Research, 2008.
- 7- Fawaz A. M. Masoud, **Qatawneh Mohammad**, Wesam Almobaideen, Alshraideh Mohammad, Nabil Abu-Hashish, Oraib Megdady, Shatha Al-Asir, shorouq AlAdaileh., Interactive RPC Binding Model, European Journal of Scientific Research, 27(1), pp.112-119. 2008
- 8- Azzam Sleit, Wesam AlMobaideen, **Mohammad Qatawneh.**, Efficient Processing for Binary Submatrix Matching, American Journal of Applied Sciences 6 (1): 78-88, 2008.
- 9- **Mohammad Qatawneh**, Hamed Bdour, Shrouq Sabah, Rana Samhan, Azzam sliet, Ja'far Alqatawna, Wesam al-Mobaideen. An alternative Routing Algorithm for Hex-Cell network. Information: An International. Information: an international interdisciplinary journal, 14(10). Pp. 3499-3514, 2011.
- 10- **Mohammad Qatawneh**, Yacoub Massad, Mohammad Musaddaq, Tawfik Khalil, Azzam sliet, A Uniform Noise Median Filter Based on a New Type of Filtering Window. Information: an international interdisciplinary journal. Vol. 15. 2011.
- 11- Azzam Sleit, Abdel latif Abu dalhoum, **Mohammad Qatawneh**, Maryam Al-Sharief, Rawa'a Al-Jabaly and Ola Karajeh, Image Clustering using Color, Texture and Shape Features. KSII TRANSACTIONS ON INTERNET AND INFORMATION SYSTEMS VOL. 5, NO. 1, January 2011.
- 12- Mohammad alshraideh, **Mohammad Qatawneh**, Wesam Almobaideen, Azzam Sleit. Program-Operators to Improve Test Data Generation Search. WSEAS TRANSACTIONS on COMPUTERS, Issue 8, Volume 9, August 2010.
- 13- **Mohammed Qatawneh**, Azzam Sleit, Moh'd Belal Al- Zoubi, Ayman Fetyani and Saleh Al-Sharaeh An Efficient Generalized Multi-Fault Tolerant Mapping Algorithm onto a 3-D Tours Interconnection topology. World Applied Sciences Journal 12 (1): 106-113, 2011.

14- Hasan Al-Hasan, **Mohammad Qatawneh**, Azzam Sleit, Wesam Almobaideen, EAPHRN: Energy-Aware PEGASIS-Based Hierarchical Routing Protocol for Wireless Sensor Networks. Journal of American Science, 7(8), 2011.

15- Azzam Sleit, Wesam Almobaideen, **Mohammed Qatawneh**, Ala'a Barakat, Heba Saadeh, A Query Answering Surveillance System for Detecting and Tracking Moving Objects Using Bounding Rectangles, Journal of Digital Information Management q Volume 7 Number 1, February 2009.

16- Amjad Hudaib, Khalid Kaabneh, **Mohamad Qatawneh.**, Modified on-Demand Multicasting Routing Protocol for Ad hoc Network. Issue 2, Volume 6, February 2009.

17- Azzam Sleit , Wesam AlMobaideen , Mohamad Smadi , **Mohammed Qatawneh**, JCAM: The Joined Clustered Access Method, 978-1-4244-2624-9, IEEE, 2008.

18- Azzam Sleit, Wesam Almobaideen, **Mohamad Qatawneh**, Shatha Al-Asir, Oraib Al-Megdadi Recognizing Objects by Detecting Multiple Moving Parts, The Journal of American Science, 4(4), 2008.

19- **Mohammad Qatawneh**, Multilayer Hex-Cells: A New Class of Hex-Cell Interconnection Networks for Massively parallel Systems. International journal of Communications, Network and System Sciences, 4(11) 2011.

20- **Mohammad Qatawneh**, Azzam Sleit and Wesam Almobaideen, Parallel Implementation of polygon Clipping Using Transputer. American Journal of Applied Sciences 6 (2): 214-218, 2009.

21- **Mohammad Qatawneh.**, Embedding Binary Tree and Bus into Hex-Cell Interconnection Network., The Journal of American Science, 7(12), 2011.

23- **Mohammad Qatawneh**, Bdour Hamed, Wesam AlMobaideen, Azzam Sleit, Amal Oudat, Wala'a Qutechat, Roba Al-Soub, FTRH: Fault-Tolerance Routing Algorithm for Hex-Cell Network. IJCSNS International Journal of Computer Science and Network Security, VOL.9 No.12, December 2009.

24- Maram Al-Zaidi, **Mohammad Qatawneh**, Emad Salah' Performance Comparison of MAODV and ZBMRP, Proceedings of the 2009 International Conference on wireless Networks, ICWN 2009, July 13-16, Las Vegas Nevada, USA, 2 Volumes. 2009.

Refereed Conference and Workshop Papers

- ❖ Azzam Sleit, W. AlMobaideen, M. Smadi, **Mohammad Qatawneh.**, JCAM: The Joined Clustered Access Method. Proceedings of the IEEE First International Conference on the Applications of Digital Information and Web Technologies, ICADIWT, Czech Republic, 2008.

- ❖ Maram Al-Zaidi, Mohammad Qataweh, Emad Salah. Performance Comparison of MAODV and ZBMRP. Proceedings of the 2009 International Conference on Wireless Networks, ICWN 2009, July 13-16, 2009, Las Vegas Nevada, USA.

Supervision

1-M.Sc Theses

Thesis title
An Algorithmic Approach for Detecting Matrix Containment.
An Investigation of the Optimal Number of Cells in Active Set for UMTS All-IP Network.
TCP Fast Retransmit Performance Investigation Over AOMDV.
Performance Comparison of MAODV and ZABMRP.
Efficient Power-aware Data gathering in Wireless Sensor Networks (EPD).
Contention and Power Aware Routing Protocol for Mobile Ad hoc Networks.
Object Recognition Based on Dominant Points Identification.
Digital Image Enhancement Using Cellular Automata.
Embedding Static Networks into Hex-Cell Topology.
A New Approach for Mobile IP Routing Technique.
Efficient Node-Energy Utilization In Wireless Sensor Networks.
Enhanced MAC Layer Protocol To Achieve Quality Of Service Over Ad Hoc Wireless Network.
QoS-Aware Scheduling Scheme for IEEE 802.16 Traffic.

2- Undergraduate Graduation projects

I have supervised more than 60 under graduation projects.

Committees Membership

- ❖ Ph.D External Examiner.
- ❖ M.Sc theses External Examiner.
- ❖ Member of the Scientific Research, Conferences and Seminars Committee at King Abdullah II School for Information technology.
- ❖ Head of Higher Studies Committee.

- ❖ Head of the M.Sc. Theses Examination Committees.
- ❖ Member of the Graduation Projects Committees.
- ❖ Member of Training Committee.
- ❖ Member of the Committee for the Development of the University Network.

- ❖ Member of the Executive Committee of the ICTE diploma committee, King Abdullah II School for Information Technology, University of Jordan, 2007-Present.
- ❖ Member of the Executive Committee of the E-government diploma committee, King Abdullah II School for Information Technology, University of Jordan, 2007-Present.

Awards

Award for Distinguished Researcher for 2012 - University of Jordan