

# Curriculum Vitae

## Prof. Mohammad Suleiman Al-Qatawneh

### **Personal Information**

Nationality: Jordanian.

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### **Achievements in Accreditation and Quality Assurance**

During my administrative positions at King Abdullah II School for Information Technology (KASIT), I conducted a comprehensive revision for programs' study plans and initiated a quality assurance program.

The new study plans comply with local higher education accreditation commission rules as well as International standards such as ACM and IEEE. The reviewed programs include four graduate and three undergraduate level programs. The graduate level programs are: PhD in computer science, MSc in computer science, computer information systems, and web intelligence. The undergraduate level programs are: computer science, computer information systems, and business information technology.

The quality assurance program satisfies ABET standards and set rules for all academic and administrative tasks and procedures that are related to faculty members, staff, and students. The program controls teaching, research, examinations, graduation projects, programs evaluation, alumni, e-learning, labs, and faculty facilities.

### **Administrative Positions**

**Present Position:** Dean of King Abdullah II School for Information Technology -The University of Jordan, 2012 - Present.

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

## **Academic Positions**

- ❖ Full Professor, King Abdullah II School for Information Technology - The University of Jordan, 2012- present.
- ❖ Associate Professor, King Abdullah II School for Information Technology - The University of Jordan, 2008 – 2012.
- ❖ Assistant Professor, King Abdullah II School for Information Technology - The University of Jordan, August 2007 – August 2008.  
Assistant Professor, Al-Zaytoonah Private University, 1997 – 2007

## **Research Interests**

Routing Algorithms, Parallel and Distributed Systems, Distributed Operating Systems, Network Multimedia, Computer and Wireless Sensor Networks.

## **Achievements: -**

- ❖ Establishing a Ph.D. program in computer science. The program became the first doctoral program in computer science offered by a Jordanian public university. See: <http://computer.ju.edu.jo/Lists/OurPrograms/Postgraduate.aspx>
- ❖ Establishing master program in Web Intelligence. The program is the first who provide research opportunity in the field of web application. See: <http://computer.ju.edu.jo/Lists/OurPrograms/Postgraduate.aspx>
- ❖ Establishing “Samsung Academy” that provides training on mobile and AV maintenance for students and local community. The academy contributes in tackling the problem of lacking job readiness for students, young men, and women from local community. See: [http://ujnews2.ju.edu.jo/en/english/Lists/News/Disp\\_FormNewsUJsocial.aspx?ID=4650](http://ujnews2.ju.edu.jo/en/english/Lists/News/Disp_FormNewsUJsocial.aspx?ID=4650)
- ❖ Establishing “Samsung Laboratory” that provides training in many applications such as mobile applications and Android operating system. See: <http://www.ju.edu.jo/Lists/AcademicNews/DispForm.aspx?ID=74&ContentTypeId=0x0100353D53CE71381A4596DE47C1EAD4034A>.
- ❖ Attracting national and international companies to support the development of King Abdullah II School infrastructure which resulted in the establishment of CISCO Academy, Samsung Lab, Samsung Academy and donations from other companies.

## Education

- ❖ University of Kiev – Ukraine. Ph.D. in Computer Engineering. Thesis Title: "**Methods and Means of Efficiency Improvement for Large Scale Computing Systems with Tree- Hypercube Topology**". 1996
- ❖ University of Donetsk - USSR. Master in Computer Engineering. Thesis Title: "**Display Processor for Output of Vector Images**". 1988

## Taught Courses

- ❖ Operating Systems.
- ❖ Computer Networks
- ❖ Distributed Operating Systems (Master Program).
- ❖ Distributed Systems (PhD Program).
- ❖ Parallel Computing.
- ❖ Programming Languages, Design and Implementation.
- ❖ Computer Architecture.
- ❖ Logic Design.
- ❖ Computer Graphics.
- ❖ Operation Research.
- ❖ Data Structure and Algorithms.
- ❖ Computer Skills.
- ❖ Graduation Projects.

## Journal Papers

- 1- Maen M. Al Assaf, Ali Rodan, **Mohammad Qatawneh**, Mohamed Riduan Abid, A comparison Study between Informed and Predictive Prefetching Mechanisms for I/O Storage Systems, Int. J. Communications, Network and System Sciences, 8, 2015, pp. 181-186.
- 2- **Qatawneh Mohammad**, Hebatallah Khattab, New Routing for Hex-Cell Network, International Journal of Future Generation Communication and Networking, Vol.8 ,No.2, 2015.
- 3- **Qatawneh Mohammad**, Ahmad Alamoush, Sawsan Basem, Maen M. Al Assaf, Mohammad Sh. Daoud, Embedding Bus and Ring into Hex-Cell Interconnection Network, International Journal of Computer networks and communications, Vol. 7 No. 3, 2015.
- 4- **Mohammad Qatawneh**, Ahmad Alamous, Ja'far Alqatawna, Section Based Hex-Cell Routing Algorithm (SBHCR), International Journal of Computer Networks and Communications, Vol. 7, No. 1, 2015.
- 5- Wesam Almobaideen, Dimah Al-Khateeb, Azzam Sleit, **Mohammad Qatawneh**, Khadejeh Qadadeh, Rasha Al-Khdour, Hadeel Abu Hafeeza, Improved Stability

- Based Partially Disjoint AOMDV, Int'l J. of Communications, Network and System Sciences Vol.6 No. 5, 2013.
- 6- Tawfiq Khalil Omar Adwan, Azzam Sleit, **Mohammed Qatawneh**, Ammar, Implementing a Total Healthcare Enterprise Resource Planning System, International journal on information (INFORMATION-TOKYO), Vol. 16 , No.6, 2013.
  - 7- **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, No. 2, 2012.
  - 8- **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.
  - 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- Hasan Al-Hasan, **Mohammad Qatawneh**, Azzam Sleit, Wesam Almobaideen, EAPHRN: Energy-Aware PEGASIS-Based Hierarchal Routing Protocol for Wireless Sensor Networks. Journal of American Science, 7(8), 2011.
  - 11- Wesam Almobaideen, Khaled Hushaidan, Azzam Sleit, **Mohammad Qatawneh**, A Cluster-Based Approach for Supporting QoS in Mobile Ad Hoc Networks. International Journal of Digital Content Technology and its Applications. Volume 5, Number 1, January 2011.
  - 12- **Mohammad Qatawneh.**, Embedding Binary Tree and Bus into Hex-Cell Interconnection Network. The Journal of American Science, 7(12), 2011.
  - 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- 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.
  - 15- 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.
  - 16- **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.
- 17- **Mohammad Qatawneh**, Azzam Sleit and Wesam Almobaideen, Parallel Implementation of polygon Clipping Using Transputer. American Journal of Applied Sciences 6 (2): 214-218, 2009.
  - 18- - 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.
  - 19- Amjad Hudaib, Khalid Kaabneh, **Mohamad Qatawneh.**, Modified on-Demand Multicasting Routing Protocol for Ad hoc Network. Issue 2, Volume 6, February 2009.
  - 20- Azzam Sleit, Wesam AlMobaideen, **Mohammad Qatawneh.**, Efficient Processing for Binary Submatrix Matching, American Journal of Applied Sciences 6 (1): 78-88, 2008.
  - 21- 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.
  - 22- 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. 2009.
  - 23- Azzam Sleit, Wesam AlMobaideen, Mohamad Smadi, **Mohammed Qatawneh**, JCAM: The Joined Clustered Access Method, 978-1-4244-2624-9, IEEE, 2008.
  - 24- **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.
  - 25- 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.
  - 26- **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.
  - 27- - Ahmad Sharieh, **Mohammad Qatawneh**, Wesam Almobaideen, Azzam Sleit., Hex-Cell: Modeling, Topological Properties and Routing Algorithm, European Journal of Scientific Research, 2008.

- 28- 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.
- 29- **Qatawneh, M.**, Adaptive Fault Tolerant Routing algorithm in Tree-Hypercube Multicomputer, Journal of Compute Science 2(2): 124-126, 2006.
- 30- **Qatawneh, M.**, Embedding Linear array onto tree-hypercube network, European Journal of Scientific Research, Vol. 10, No. 2, 2005.

### **Conference and Workshop Papers**

- 1- 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.
- 2- 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, 2009, Las Vegas Nevada, USA.

### **Research Supervision**

#### ❖ MSc Theses

	<b>Thesis Title</b>
<b>1</b>	An Algorithmic Approach for Detecting Matrix Containment.
<b>2</b>	An Investigation of the Optimal Number of Cells in Active Set for UMTS All-IP Network.
<b>3</b>	TCP Fast Retransmit Performance Investigation Over AOMDV.
<b>4</b>	Performance Comparison of MAODV and ZABMRP.
<b>5</b>	Efficient Power-aware Data gathering in Wireless Sensor Networks (EPD).
<b>6</b>	Contention and Power Aware Routing Protocol for Mobile Ad hoc Networks.
<b>7</b>	Object Recognition Based on Dominant Points Identification.
<b>8</b>	Digital Image Enhancement Using Cellular Automata.
<b>9</b>	A New Approach for Mobile IP Routing Technique.
<b>10</b>	A New Approach for Mobile IP Routing Technique.
<b>11</b>	Embedding Static Networks into Hex-Cell Topology.

### **Boards, Councils, Journals and Standing Committees**

- ❖ 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 Committee of Computer Center – The University of Jordan.
- ❖ Member of the Council of the Faculty of IT – The University of Jordan, 2007-Present.
- ❖ Member, The University of Jordan Council, 2012-Present.
- ❖ Member of the Executive Committee of the ICTE diploma committee, King Abdullah II School for Information Technology, the University of Jordan, 2007-Present.
- ❖ Member of the Executive Committee of the e-government diploma committee, King Abdullah II School for Information Technology, The University of Jordan, 2007- Present.
- ❖ Member, Appointment and Promotion Committee, The Faculty of IT 2007-Present.
- ❖ Member, Appointment and Promotion Committee, The University of Jordan, 2013-Present.
- ❖ Member of the steering committee of the IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), 2013.

## **Awards**

**Award for Distinguished Researcher for 2012 - University of Jordan**