

# Curriculum Vitae

## Personal Information:

**Surname:** Al Mobaideen  
**Given Name:** Wesam  
**Middle Name:** Abdel Rahman.  
**Date of Birth:** 5-10-1975.  
**Place of Birth:** Amman, Jordan.  
**Material Status:** Married.



## Contact Information:

Computer Science Department.  
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P.O.Box: 11946-460460, Abu Alia, Amman, Jordan.

## Qualifications/Education:

- Ph.D. Degree in Computer Networks, University of Bologna, 2003, Bologna, Italy.  
Ph.D. Thesis Title: "Performance Evaluation of Mobile Agents Paradigm for Wireless Networks".
- Master Degree in Computer Science, University of Jordan, 1999, Amman, Jordan.
- B.Sc. Degree in Computer Science, Mu'ta University, 1997, Karak, Jordan.

### **Current Position:**

- Computer Science Director since 2009.
- Associated Professor, Computer Science Department, King Abdullah II School for Information Technology, University of Jordan, 2003.

### **Previous Positions:**

- Director of the Office of Accreditation and Quality Assurance.
- Faculty of Graduate Studies Dean's Assistant for Development and Computer Affairs, 2008-2009.
- Computer Science department's chairperson, September/2005 – September/2007.
- King Abdullah II School for Information Technology Dean's Assistant for Development Affairs, 2003-2005.

### **Research Interests:**

Wireless Mobile Networks Protocols; Mobile Ad-hoc Networks Routing Protocols; TCP over Wireless Networks; Mobile Agents Paradigm for Wireless Networks; Mapping Networks Topologies; Indexing Algorithms.

### **Participation in Committees:**

1. Graduate Studies Committee, Department of Computer Science, University of Jordan, 2004 – 2008.
2. Graduate Studies Committee, **King Abdullah II School for Information Technology (KASIT)**, University of Jordan, 2005 – 2007.
3. Student Training Committee, Department of Computer Science, University of Jordan, 2005 – 2007.
4. The Ministry of Higher Education Committee for Developing Accreditation Standards regarding the Computer Science Major for the Jordanian Universities, 2006.

5. A committee to set a complete plan of creating The Computer Networks Department, Omran University, Yemen Arab Republic, 2006.
6. Member of the Executive Committee for the Information and Communication Technology in Education Diploma (ICTE), University of Jordan, 2005-2007.
7. Member of the Technology Committee for University of Jordan's Hospital (Committee formed by the university president), 2006.
8. Member of the department of computer science committee for Quality Assurance, 2004-2008.
9. Director of the University of Jordan Network Upgrading Committee, which aimed to upgrade the university network with a budget over 1 M\$, 2008.
10. Several committees to hire employees, Department of Computer Science and KASIT, University of Jordan, 2004-2007.
11. Several committees to carry out a peer review check of the compliance of different universities to the standards of accreditation and quality assurance in Jordan and Bahrain.

### **Representative Person Roles:**

- Department of Computer Science's representative person in KASIT council, 2004-2005.
- King Abdullah II School for Information Technology's (KASIT) representative person in the university council, 2005-2006.

### **Participation in Conferences:**

1. 4<sup>th</sup> international Conference on Sciences of Electronic, Technologies of Information and Telecommunications(Setit2007), 25-29 march, Hammamet, Tunisia, 2007.
2. The 10<sup>th</sup> World Multi-Conference on Systemic, cybernetics and Informatics, July 16-19, Orlando, Florida, USA, 2006.

3. The 4<sup>th</sup> international Multiconference on Computer Science and Information Technology (CSIT), Amman, Jordan.
4. International Workshop on Computer Science Education and Research, KAIST, Korea, 2010.

### **Taught Courses:**

1. C++ Programming.
2. Data Structures.
3. Computer Networks-1.
4. Networks Programming.
5. Internet Protocols (Computer Networks-2).
6. Telecommunications Networks.
7. Modeling and Simulation.
8. Internet Applications in Education.
9. Wireless Mobile Networks.
10. Multimedia Networking.
11. Computer Networks (Master level course).

### **Master Students Supervision:**

1. Enas Tarawneh, "Mobile Ad Hoc Networks Route Maintenance Analysis In Reactive Routing Protocols", 2004.
2. Farah Kandah, "Performance Evaluation Of TCP's Fast Retransmit Over IEEE 802.11 DCF", 2005.
3. Hani Al Mimi, "Performance Evaluation of Multicast Ad Hoc On-Demand Distance Vector Protocol", August, 2005.
4. Ghada Al qaddoumi, "Improving still images compression and transmission over wireless networks", June, 2006.
5. Safa'a Alawneh, " Selection Of Power Transmission Range In Clustered Mobile Ad-Hoc Networks", May, 2006.
6. Rania Halasa, " Studying TCP's Timeout Adaptivity Over Wireless Mobile Ad-Hoc Networks", August 2006.
7. Libda Al Gifran, "Load-Balancing Technique In Clustered Mobile Ad-Hoc Networks", August, 2006.
8. Kaled Hushaidan, "Providing Cluster-Based Quality of Service in Mobile Ad Hoc Networks", May, 2007.
9. Wesam Herbawi, " Vicinity Based Partial Flooding", May, 2007.
10. Mohammad Smadi, "Enhancing Response Time for Spatial Queries", April, 2007.

11. Raghed Al\_Tarawenah, "Using Genetic Solution for Manet Mobility Based Clustering Algorithms", July, 2007.
12. Walaa Qutahsat, "Path Based Fast Retransmit over on Demand Multipath Mobile Ad hoc Wireless Network", December, 2008.
13. Roba Soub, "Secure Partially Spatially Disjoint Multipath Routing Protocol over MANETs", December, 2008.
14. Nosyaba Al\_Tarawneh, "Contention and Power Aware Routing Protocol for Mobile Ad Hoc Networks", 2008.
15. Ghada Jaber, " POWER AWARE CLUSTERING IN MOBILE AD HOC NETWORKS", December, 2008.
16. Enas Abu Qadoum, "Automated Reallocation of Replicas over qu
17. Shatha Alaseer, "Discovering the Most Stable Nodes in Mobile Ad Hoc Networks", 2010.
18. Sawsan Abu Sharkh, "Enhancing Modularity-Based Graph Clustering Algorithm", 2010.
19. Yaquob Masaad, "Performance Evaluation of Transmission Power Control (TCP) in Mobile Wireless Ad Hoc Networks", 2010.
20. Mohamad Adnan Jasim, "A Multi-Function Energy-Efficient System Model for Location –Aware Wireless Sensor Networks", 2011.
21. Rawaa Jabali, "Performance Evaluation of Cross Layer design and Optimization in MANETs", in progress.
22. Yasmin Khiero, "Membrane Computing Simulation for Secure Hierarchy Clustered Mobile Ad Hoc Networks", in Porgress.

### **Publications in Conferences:**

1. **Wesam A. Al Mobaideen**, Emad Qaddoura., Eyas E.Qawasmeh. and Ahmad Omari., "Framework for Distributed Agents Reliability (FDAR)", The 4<sup>th</sup> international Multiconference on Computer Science and Information Technology CSIT, Amman, Jordan, Pages 327-333, Vol. 1, April 5-7 2006.
2. **Wesam Al Mobaideen**, Safa'a .Alawneh, "Cluster Head Transmission Power Control in Clustered Mobile Ad hoc Networks", The 10<sup>th</sup> World Multi-Conference on Systemic, cybernetics and Informatics", Pages 88-91, Vol. v, July 16-19, 2006 – Orlando, Florida, USA.
3. Azzam Sleit, **Wesam Al Mobaideen**, Nawal Alzabin, Hadeel Dawood, and Khaled Alqarute, "A Genetic Algorithm for Distributed Query Processing over Mirror Servers". The 1<sup>st</sup> International Conference on Digital Communications & Computer Applications, 2007, Irbid, Jordan.

4. **Wesam Al Mobaideen**, Emad Qaddoura, Ahmad Sharieh, Shatha Asir, "Distance Granularity Effect on MANET Simulation", 4<sup>th</sup> international Conference on Sciences of Electronic, Technologies of Information and Telecommunications(Setit2007), Hammamet 25-29 march, Tunisia, 2007
5. Ammar M. Huneiti, **Wesam A. Al Mobaideen**, " ADVANCED PERFORMANCE SUPPORT SYSTEMS – CONCEPTUAL OVERVIEW", 4<sup>th</sup> international Conference on Sciences of Electronic, Technologies of Information and Telecommunications(Setit2007), Hammamet 25-29 march, Tunisia, 2007.
6. Azzam Sleit, **W. AlMobaideen**, M. Smadi, M. Qatawneh," JCAM: The Joined Clustered Access Method", First International Conference on the Applications of Digital Information and Web Technologies – ICADIWT, Czech Republic, 2008.
7. Mohammed S. Al-Rawi, Abdel Latif Abu-Dalhoum, Yousef Salah, **Wisam Al-Mobaideen**, Ansar Khoury. "A New Color Transformation for JPEG-2000 Image Compression". Proceedings of the 12th Wseas International Conference on Computers , Pts 1-3 - New Aspects of Computers, p. 159-162, 2008.

### Publications in Journals:

1. Emad Qaddoura, **Wesam Al Mobaideen**,, Abdelghani Daraiseh,, Rushdi Muammar, Soliman Al-Walaie, "TCP Optimal Performance in Wireless network Applications", Journal of computer Science, Volume (2), Issue (5), pages 455-458, 2006,
2. Emad Qaddoura, **Wesam AlMobaideen**, Ahmad Omari, "Distributed clusterhead architecture for mobile ad hoc networks", Journal of Computer Science, Volume (2), Issue (7), pages: 583-588, 2006.
3. **Wesam Al Mobaideen**, Hani Mahmoud Mimi, Fawaz Ahmad Masoud, Emad Qaddoura, " Performance Evaluation of Multicast Ad Hoc On-Demand Distance Vector Protocol", Computer Communication Journal, Vol. 30(2007), Pages 1931-941, Elsilver (Science Direct), 2007. (Thomson ISI)
4. Azzam Sleit, **Wesam AlMobaideen**, Samih Al-Areqi, and Abdulaziz Yahya, " A Dynamic Object Fragmentation and Replication Algorithm In Distributed Database Systems",

American Journal of Applied Sciences Vol. 4, No. 8, pages: 613-618, 2007, ISSN 1546-9239 © 2007 Science Publications. (Thomson ISI)

5. Azzam Sleit (previously, Azzam Ibrahim), **Wesam AlMobaideen**, Aladdin H. Baarah, and Adel H. Abusitta, "An Efficient Pattern Matching Algorithm", Journal of Applied Sciences, Vol. 7, No. 9, 2007 (ISSN: 1812-5654).( Thomson ISI).
6. **Wesam AlMobaideen**, Mohammad Qatawneh, Azzam Sleit, Imad Salah, Saleh Al-Sharaeh, "Efficient Mapping Scheme of Ring Topology Onto Tree-Hypercubes", Journal of Applied Sciences 7(8), pages: 2666-2670, 2007. (Thomson ISI)
7. Azzam Sleit, **Wesam Al-Mobaideen**, Nawal Alzabin, Hadeel Dawood, Khaled alqarute, "EFFICIENT QUERY PROCESSING OVER MIRROR SERVERS USING GENETIC ALGORITHMS", Neural Network World, 4/07, pages: 311-320, 2007. (Thomson ISI)
8. Mohammad Qatawneh, **Wesam AlMobaideen**, Azzam Sleit, Emad Qaddoura, Orayb Meqdady, Shatha Al-Asir, " PFR: Priority-based Fragments Retransmission for IEEE 802.11 Ad-hoc Wireless Networks", Accepted in the European Journal of Scientific Research, 2008.
9. **Wesam AlMobaideen**, "SPDA: Stability Based Partially Disjoint AOMDV", European Journal of Scientific Research, Vol.27, No.3, pp.342-348, 2009.
10. Ahmad Sharieh, Mohammad Qatawneh, **Wesam AlMobaideen**, Azzam Sliet, "Hex-Cell: Modeling, Topological Properties and Routing Algorithm", Accepted in the European Journal of Scientific Research, 2008.
11. Fawaz A. M. Masoud, Qatawneh Mohammad, **Wesam AlMobaideen**, Alshraideh Mohammad, Nabil Abu Hashish, Oraib Megdady, Shatha Al-Asir, Shorouq Aladaileh, " Interactive RPC Binding Model", Accepted in the European Journal of Scientific Research, 2008.
12. Azzam Sleit, **W. AlMobaideen**, M. Qatawneh, S. Al-Asir, O. Al-Megdadi, " Recognizing Objects by Detecting Multiple Moving Parts", Vol. 4, No. 4, 2008.

13. Azzam Sleit, **W. AlMobaideen**, M. Qatawneh, H. Saadeh, " Efficient Processing for Binary Submatrix Matching", American Journal of Applied Sciences, Vol. 6, No. 1, 2008.
14. Mohammad Qatawneh, Azzam Sleit, **Wesam Almobaideen**, "Parallel Implementation of Polygon Clipping Using Transputer", American Journal of Applied Sciences, Vol. 6, No. 2, 2009.
15. Mohammad Qatawneh, Bdour Hamed, **Wesam AlMobaideen**, Azzam Sleit, Amal Oudat, Wala'a Qutechat, Roba Al-Soub, " FTRH: Fault Tolerance Routing Algorithm for Hex-Cell Networks", IJCSNS International Journal of Computer Science and Network Security, VOL.9 No. 12, 268-274, 2009.
16. Azzam Sleit, **Wesam Almobaideen**, Mohammed Qatawneh, Ala'a Barakat, Heba Saadeh, " A Query Answering Surveillance System for Detecting and Tracking Moving Objects using Boundary Rectangles ", Vol. 7, No. 1, 2009.
17. Mohammad Alshraideh, Mohammad Qatawneh, **Wesam Al Mobaiden**, Azzam Sleit, " Program-Operators to Improve Test Data Generation Search", WSEAS TRANSACTIONS on COMPUTERS, Issue 8, Volume 9: 799-811, 2010.
18. Azzam Sleit, Sawsan Abusharkh and **Wesam AlMobaideen**, " Enhancing Modularity-Based Graph Clustering", World Applied Sciences Journal, vol. 9 (9): pages 984-996, 2010.
19. 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 interdisciplinary journal. 14(10), Pp. 3499-3514, 2011.
20. 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.
21. **Wesam Almobaideen**, Khaled Hushaidan, Azzam Sleit, Mohammad Qatawneh, "A Cluster-Based Approach for Supporting QoS in Mobile Ad Hoc Networks ", JDCTA: International Journal of Digital Content Technology and its Applications, Vol. 5, No. 1, pp. 1 ~ 9, 2011.