

Curriculum Vita

Mohammad A. Al-Rousan

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<http://www.just.edu.jo/FacultiesandDepartments/it/Departments/NES/Pages/departmentstaff.aspx>

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NanoSignature
e-lithography(SEM):



PERSONAL DATA

- **Nationality:** Jordanian
- **Date of Birth:** January 15, 1963
- **Place of Birth:** Zarqa, Jordan
- **Marital Status:** Married with four children

PROFILE

Expert in the areas of Sensor Networks, Artificial Intilligent, Web-based Systems, Programming Languages, Nano Technology, Cloud Compting

EDUCATIONAL QUALIFICATIONS:

- **Ph.D.** Electrical and Computer Engineering, Major: Computer Engineering
Title: "Reliability and Performance of Large-Scale Ring-Based Hierarchical SCI Multiprocessors"
University: Brigham Young University (BYU), Provo, USA, 1996
Department: Electrical and Computer Engineering
Advisor: Prof. James K. Archibald
- **M.S** Electrical Engineering, Major: Computer Engineering
Title: "A Protocol for Token Ring Local Area Networks and Its Performance"
University: University of Missouri-Columbia, Columbia, USA, 1992
Department: Electrical and Computer Engineering
Advisor: Prof. M. Obaidat
- **B.S.** Computer and Information Sciences, Major: Computer Engineering
Project Title: Design and Fabrication of Robot Vision System Based Artificial Intelligence
University: King Saud Univ., Riyadh, 1986
Department: Computer Engineering
Advisor: Prof. M. Ibramshah



PROFESSIONAL EXPERIENCE:

1. 8/2016-present, Jordan Univ. of Science & Technology Irbid, Jordan
Professor – Dept. of Network Engineering & Security- Faculty of Computer and Information Technology
2. 10/2014-8/2016, Kuwait University, Kuwait
Professor – Computer Engineering Department
3. 9/2012 – 9/2014 , Jordan Univ. of Science & Technology Irbid, Jordan
Professor – Dept. of Network Engineering & Security- Faculty of Computer and Information Technology
 - Project Manager for Center of Excellence for Innovation Project at JUST with IBM assistance (2011-2012).
 - Director, Artificial Intelligent laboratory
 - Member, Committee for building "Clean Room for JUST Nano Center"
 - Member, Steering Committee, Nano Center, JUST
 - Member, Tender Committee for "Nano tools; e.g. SEM Microscopy, TEM, EDAX, eBeam Lithography, etc.",
 - Chair, Committee for devolving a Master program in "Nano Science and Engineering". JUST Nano Center.
4. 9/2008 – 9/2012 Jordan Univ. of Science & Technology Irbid, Jordan
Dean – Faculty of Computer and Information Technology
 - Took responsibility for leading the College of IT with vision, creativity and excellence.
 - Designed and implemented the academic plan as it relates to the College of IT.
 - Project Manager for Center of Excellence for Innovation Project at JUST with IBM, including the Cloud Computing Environment.
 - Developed, implemented, promoted, and evaluated curriculum.
 - Supervised the management, development, and evaluation of curriculum for the College
 - Driving the establishment of the Department of "Service Sciences, Management and End Engineering (SSME), with the assistant of IBM.
 - Establishment of the Department of Networking Engineering and Security.
 - Establishment of the Department of Software Engineering.
 - Establishing the AI and Robotic Laboratory, Director.
 - Establishment the **Nanotechnology** Laboratory, Co-founder
 - Member, Committee of Establishing a Nanotechnology Center.
 - Member, Tender Committee, Evaluated offers for building **Nano Clean Room, class 1000 for JUST nano Center.**
 - Member, Tender Committee, Evaluated offers for **Scanning electron microscope (SEM), For JUST Nano Center.**
 - Member, Committee to establish a Multidisciplinary Nanotechnology Graduate Program.

- Initiating cooperation and partnership with giant local and international IT companies including Intel, Microsoft, Cisco, Oracle, IBM, hp, iHorizons, and Zain Telecommunication Company.
 - Recruiting people (staff members, lecturers, and lab supervisors)
 - Hosting/Chairing the International Conference on Information and Communication Systems (iCICS 2009- 2012).
 - Establishing an Industrial Advisory Board for the College
 - Establishing many computing laboratories.
 - Preparing programs for ABET accreditation.
 - Establishing and Mentoring the Open Source Group.
 - Establishing the Student Entrepreneurship CLUB (DART), JUST
5. 7/2010 - present: Full Professor, Department of Network Engineering and Security, Jordan University of Science & Technology, Jordan
 6. 9/2008 - 7/2010: Associate Professor, Department of Network Engineering and Security, Jordan University of Science & Technology, Jordan
 7. 8/2005 - 9/2008: Associate Prof. (rank: A), Department of Computer Engineering, Jordan University of Science & Technology, Jordan
 8. 5/2002- 5/2005: Associate Prof., Computer Engineering Department, American University of Sharjah, Sharjah, UAE.
 9. 9/1996 - 11/2001: Assistant Prof., Department of Computer Engineering, Jordan University of Science & Technology, Jordan
 10. 9/95- 6/96: Teaching and Research Assistance, Brigham Young University, Utah, USA (promoted to associated professor, August 2002)
 11. 8/94- 9/95: Developer, IBM, Provo, Utah, USA
 - Developed and maintained existing software (in C, Pascal & Assembly).
 - Wrote programs for NetWare (NOVELL) 2.x, 3.x and 4.x
 12. 8/92 – 8/94: Teaching and Research Assistance, Brigham Young University, Utah, USA.
 13. 8/90-5/92: Teaching and Research Assistance, University of Missouri-Columbia, USA.
 14. May-Aug. 1985: Technical Support Engineer, Digital Equipment Corporation (DEC) Saudi Arabia.
 - Received training on diagnosis and trouble shooting for VAX systems
 - Worked with customer service department to maintain computer systems.

RESEARCH INTERESTS & THEMES:

I started my research activity at King Saud University, Department of Computer Engineering when I chose to work on **Robot Vision System using Artificial Intelligent Techniques**. However in my Master and Ph.D my concentration was shifted to interconnection networks and performance evaluation of systems. During my Ph.D. study I made a thorough investigation for the new protocol called "Scalable Coherent Interface SCI" which was meant for interconnecting high performance machines. From 1996 to 2002, I continued working on this topic at Jordan University of Science and Technology (JUST) along with teaching and researching on hot issues on networking such as wireless networks and wireless sensor networks. I have supervised several master students on networking, as my publication articles indicate. In addition, I have established with my colleague the "Cryptographic Hardware and Information Security Lab (CHiS)".

While in JUST I decided to use my AI knowledge and pay attention to people with special needs, in particular, the deaf people. I formed a group of researchers who were able to produce several excellent articles on Sign Language. This research continued when I moved to American University of Sharjah (AUS) in 2002 for sabbatical leave, I have been able to develop several new systems and AI algorithms for sign language recognition and Mechatronics Systems.

Currently, I am researching the use of nanotechnology in several areas: nano communications, nano manipulators, CNT in Germination, and nano-bio robots. My group was able to attract several funds to establish the first **nano-technology laboratory/Center at JUST**.

Finally, my main research interests fall into the following themes:

1. *Networking: Protocols, Security, Wireless Sensor Networks*
2. *Artificial Intelligent Systems and applications: Medical Applications, Sign Languages, Letter and Image Recognition.*
3. *Nanotechnology Systems: (carbon nano tubes) in wireless communications and biomedicine.*
4. *Cloud Computing*
5. *Web-based applications: Web-based monitoring, Medical Systems.*

PUBLICATIONS:

[⇒ Selected Journal Articles:](#)

1. Haider Abbas, Hada Almashaqbeh; Jamal N. Al-Karaki; Mohammad Al-Rousan; Asad Raza; Maruf Pasha "Joint Geographic and Energy-aware Routing Protocol for Static and Mobile Wireless Sensor Networks" Journal of Ad Hoc & Sensor Wireless Networks, April 24, 2018
2. E. Rashid, M, Al Rousan, N, Raahed, "Performance Evaluation of Wide-Spread Assignment Scheme in Vehicular Cloud," Journal of Vehicular Communication, Volume 9, July 2017, Pages 144-153.
3. Mohammad H Alshayji¹, Mohammad Al-Rousan² and Dunya T. Hassoun³, "Detection Method for Counterfeit Currency Based on Bit-Plane Slicing Technique," International Journal of Multimedia and Ubiquitous Engineering Vol.10, No.11 (2015), pp.225-242
4. Inad Aljarrah, Mohammad Al-Rousan, Anas Toma, "An Automatic Intelligent System for Diagnosis of Johne's Disease" International Journal of Intelligent Systems Technologies and Applications, Volume 14 Issue 2, January 2015, pp 128-144.
5. Mohammad Al-Rousan, Muneer Bani Yassein, Ahmed Al-Dubai, Barraaq Ghaleb, Ibrahim Mahmoud, "A Novel Situation Specific Network Security for Wireless Sensor Networks", Sensors & Transducers, Vol. 186, Issue3, March, 2015, pp.33-42.
6. Patent, "Automated Nano Manipulation Techniques", under process, 2018.
7. Patent, "Speedy Nano Germination Protocol", under process, 2017.

8. Moad Mowafi, Lo'aiTawalbeh, Walid Aljoby, and Mohammad Al-Rousan, "C3SM: Information Assurance Based on Cryptographic Checksum with Clustering Security Management Protocol." *Journal of Information Security*, vol. 3, no. 4, pp. 272-280, 2012.
9. M. Al-Fandi, M. A. Jaradat, M. Al-Rousan, and S. Jaradat, "Flagellated Bacteria as Self-Navigator Nano/Bio-Robots", *Journal of Mechanics in Medicine and Biology (JMMB)*, Volume 12, Issue 02, 2012, pp. 1240003-1- 1240003-15.
10. Mohammad AL-Rousan, Wisam Shihadeh, Ahmed S. Ghorab " A Computer-based Detection of Glaucoma using Fundus Image Processing" *Journal of Communications and Computer Engineering*, 2011.
11. M. Jaradat, **M. AL-Rousan**, and L. Quadan "Reinforcement Based Mobile Robot Navigation in Dynamic Environment" , *Journal of Robotics and Computer Integrated Manufacturing*, vol. 27, pp. 135-149, 2011. (Elsevier Journal. Impact factor:1.687).
12. M. Al-Fanid, M. AL-Rousan, M. Jarradat, L., Al-Ebbini, and J. Beech, "New Design for the Separation of Microorganisms Using Microfluidic Deterministic Lateral Displacement", *International Journal of Robotics and Computer Integrated Manufacturing*, 2010. Elsevier Journal.
13. Taha Landolsi, A. R. Al-Ali, Tarik Ozkul, and Mohammad A. Al-Rousan, "Wireless Distributed Load-Shedding Management System for Non-Emergency Cases, *International Journal of Electrical and Electronics Engineering* 4:7 2010, Pages: 453-460
14. M. A. AL-Rousan and O. AL-Jarrah M. Al-Hammouri, "Recognition of Dynamic Gestures in Arabic Sign Language using Two Stages Hierarchical Scheme", *International Journal of Knowledge-Based & Intelligent Engineering Systems (KES Journal)*, 2010. *KES Journal*(2010) 139-152, (IOS Press Journal, Netherland)
15. Mohammad AL-Rousan, A. Rjoub, and Ahmad Baset "A Low-Energy Security Algorithm for Exchanging Information in Wireless Sensor Networks", *International Journal of Information Assurance and Security*, Volume 4, Issue 1/2, pp. 48-59, 2009. (Published by: Dynamic Publishers Inc., USA.
16. M. Al-Rousan, T. Landalosi, W. Kanakri "Energy Consumption Considerations in Dynamic Wireless Sensor Networks with Nodes and Base Stations Mobility", *International Journal of Sensor Networks (IJSNET)* 2009 (InderScience Journal)
17. M. Al-Rousan and Dima Kullab "REAL-TIME COMMUNICATIONS FOR WIRELESS SENSOR NETWORKS: A TWO-TIERED ARCHITECTURE" *International Journal of Distributed Sensor Networks*, Vol. 5, No.6, pp. 806-823, 2009. (Taylor & Fracis Journal)
18. M. Al-Rousan and K. Assaleh "A Wavelet- and Neural Network-based Voice System for a Smart Wheelchair Control", *Journal Franklin Institue*, 348 (2011), pp. 90-100, Elsevier Journal, 2009. DOI information: 10.1016/j.jfranklin.2009.02.005,
19. A. Sagahyroon, M. Al-Rousan, M. OcKba, and R. Niak, "Design and Implementation of An Assistive Platform", *International Journal of Applied Engineering Research (IJAER)*, Vol. 5, No. 4 (2010), pp. 619-63, 2010.
20. M. AL-Rousan, K. Assaleh, And A. Talaa "Video-based Signer-independent Arabic Sig Language Recognition Using Hidden Markov Models", *Elsevier Journal of Applied Soft Computing*, 9(2009), 990-999, 2009.
21. M. AL-Rousan, and O. Abu-Rahmeh, "The Impact of DCF and PCF Protocols in Mobile WLANs", *International Journal of Modeling and Simulation*, Vol. 28, No. 1, pp. 1-10, 2008.

22. T. Shanableh, K. Assaleh, and M. AL-Rousan "Spatio-Temporal feature extraction techniques for isolated Arabic sign language recognition" *IEEE Transactions on Systems, Man and Cybernetics, Part B (SMCB)*, Vol. 37, No. 3, pp. 641-650 , 2007.
23. M. Al-Rousan, A. AL-Ali, A. Eberlin "Remote Patient Monitoring and Information System", *Int. J. Electronic Healthcare*, Vol. 2, No. 3, pp. 231-249, 2006. (Inderscience Journal)
24. M. AL-Rousan and A. R. AL-Ali, "An Innovative m-utility Management and Billing System", *Journal of Enterprise Information Management*, Vol. 19, No.2, pp. 136-147, 2006. (Emerald Groop Journal)
25. A.R. Al-Ali, M. Al-Rousan and T. Ozkul, "Implementation of Experimental Communication Protocol for Health Monitoring of Patients", *Journal of Computer Standards & Interfaces*, Vol. 28, No. 5, pp. 523-530, June 2006, Elsevier Journal.
26. K K. Assaleh and M. AL-Rousan "Recognition of Arabic Sign Language Alphabets Using Polynomial Classifiers" *EURASIP Journal on Applied Signal Processing*, Vol. 2005, No. 13, pp. 2136-2141, 2005.
27. A. Al-Ali and M. AL-Rousan, "Java Based Home Automation Systems", *IEEE Transactions on Consumer Electronics*, Vol. 50, No. 2, pp. 498-505, May 2004.
28. M. Al-Rousan and A. Shaout "Closed-form Solution for Reliability of SCI-Based Multiprocessor Systems Using Weibull Distribution and Self-Healing Rings", *Journal of Computers & Electrical Engineering*, Vol.30, 309-329, 2004, Elsevier Journal.
29. M. AL-Rousan, "WEBCHAIR: A Web-Based Wireless Navigation Wheelchair System for People with Motor Disabilities", *International Journal of Computer and Applications*, Vol. 27, No. 24, pp. 274-284, 2005.
30. M. AL-Rousan and S. Ahmed "Implementation of Cache Coherence Protocol for COMA Multiprocessor Systems Based on the Scalable Coherent Interface", *International Journal of Computer Standards & Interfaces*, Vol. 27/1, pp 71-88, 2004, Elsevier Journal.
31. A. Rojob, M. AL-Rousan, O. Jarrah, and O. Koufopavlou, "An Efficient Low-Swing Multithreshold-Voltage Low-Power Design Technique", *Journal of Circuits, Systems and Computers (JCSC)* Vol. 13, No. 1 (February 2004), pp. 193-203, Feb. 2004. (World Scientific Journal)
32. S. Radiadeh and M. AL-Rousan, "API α Controller for Linear Systems with Nonconstant Disturbances", *Computer and Electrical Engineering Journal*, Vol. 29, Issue 4, pp. 479-488, June 2003. (Elsevier Journal)
33. S. Radiadeh and M. AL-Rousan, "AP α Controller for Linear Systems with RAMP Disturbances", *International Journal of Modeling and Simulation*, Vol. 23, No. 3, pp. 167-171, Sep., 2003.
34. M. AL-Rousan, O. Al-Jarrah and M. Mowafi "K-processor Reliability of Large-Scale SCI Hierarchical Interconnections", *International Journal of Reliability, Quality, and Safety Engineering*, Vol. 9, No. 1, pp. 61- 78, Mar. 2002. (World Scientific Journal)
35. S. Radiadeh and M. AL-Rousan, "A New Numerical Technique for Solving The Nonlinear Filtering Problems", *International Journal of Electronics*, Vol. 89, No. 3, pp. 561-573, 2002.
36. **M. AL-Rousan, J. K. Archibald and L. R. Bearson "Evaluating the Impact of Locality on Hierarchical Large-Scale SCI Multiprocessors", *Performance Evaluation Journal*, 46 (2001), pp. 275-302, Nov. 2001, Elsevier Journal.
37. O. Al-Jarrah and M. AL-Rousan "Fault Detection and Accommodation in Dynamic Systems Using Adaptive Neuro-Fuzzy Systems," *IEE Transactions on Control Theory and Applications*, Vol 148, No. 4, pp. 283-290, July 2000.

38. M. AL-Rousan and Mohammed Hussain "Automatic Recognition of Arabic Sign Language Finger Spelling", *International Journal of Computers and Their Applications (IJCA)*, Special issue on Fuzzy systems, Vol. 8, No. 2, pp. 80-88, June 2001.
39. M. AL-Rousan M. Mowafi, and O. Al-Jarrah "Improving K-processor Reliability of Large-Scale Hierarchical Systems Using Double Counter-Rotating Rings", *International Journal of Computers and Their Applications (IJCA)*, Vol.7, No. 3, pp. 111-121, Sep. 2000.
40. O. Al-Jarrah, A. Mohsen and M. AL-Rousan "Reducing Control Latency in Distributed Shared-Memory Multiprocessor Systems Using Neural Network Prediction", *International Journal of Computers and Their Applications*, Vol. 7, No. 3, pp. 3-13, Mar. 2000.

⇒ **Conference Papers:**

1. Muneer Bani Yassein ; Shadi Aljawarneh ; Mohammad Al-Rousan ; Wail Mardini ; Wesam Al-Rashdan, "Combined software-defined network (SDN) and Internet of Things (IoT)" International Conference on Electrical and Computing Technologies and Applications (ICECTA), Ras AlKhaimah, UAE, 21-25, 2017
2. M. Alshayegi, M. Al Rousan, H. Elshely, "A Study on Fault Tolerance Mechanisms in Cloud Computing", 3rd International Conference on Computer and Information Technology (ICCIT 2017), April 12-14, 2017, Kusadasi, Turkey.
3. Mohammad AL-Rousan, Elham Al-Shara, and Yaser Jararweh, "AMCC: Ad-hoc based Mobile Cloud Computing Modeling", The International Workshop on Networking Algorithms and Technologies for IoT (NAT-IoT 2015), *Procedia Computer Science* 56 (2015) 580 – 585, Sept. 2015.
4. M. Shatnawi, M. AL-Rousan, Suzan Amareen, "CONTENT BASED IMAGE RETRIEVAL FOR MEDICAL APPLICATIONS USING LOW LEVEL IMAGE DESCRIPTORS", , International Conference on Computational and Experimental Science and Engineering (ICCESEN 2014), Oct 25, Turkey, 2014.
5. Mohammad AL-Rousan and Rana Alqurem " Low Power Receiver for Wireless Sensor Network implemented by Nano-scale CMOS Process", Fifth The International Conference on Information and Communication Systems (ICICS 2014), Jordan, April 1-3, 2014.
6. Nadia AL-Rousan, Mohammad AL-Rousan, and Adnan Shariah "A fuzzy logic model of a tracking system for solar panels in northern Jordan based on experimental data" published in International Conference on Renewable Energy Research and Applications, ICRERA 2012, Nov. 2012.
7. Mohammad Al-Rousan, Wisam Shihadeh, Ahmed S. Ghorab " A Computer-based Detection of Glaucoma using Fundus Image Processing" In Proc. Of the 7th International Computing Conference in Arabic, May 31-June 2, 2011, Saudi Arabia.
8. M. Al-Fandi1, , M. Jaradat, M. AL-Rousan, S. Jaradar "A Living Biological Nano Robot As Self-Navigator Sensor For Diseases" Proc. of the First Middle East Conference on Biomedical Engineering, Feb. 21 - 24, 2011, Sharjah, UAE.
9. T. Landolsi, A. R. Al-Ali, T. Ozkul, and M. AL-Rousan, "Wireless Distributed Load-Shedding Management System for Non-Emergency Cases". In Proc. of the International Conference on Power systems Engineering, Penang, Malaysia, February 24-26, 2010.
10. Jamal N. Al-Karaki, Mohammad Alrousan, Samer Khasawaneh " On the Development of Adaptive and Self-Dependent Secure Routing for Wireless Sensor Networks", In the Proc. MoMM, 8th International Conference on Advances in Mobile Computing and Multimedia, pp. 288-294, NY, USA, 2010

11. Lo'ai A. Tawalbeh, Mohammad AL-Rousan, Duaa Al-Ansari "Survey of efficient public-key management schemes for wireless sensor networks" in Proc. the 2nd International Congress on Pervasive Computing and Management, Sydney, Nov. 2009.
12. M. AL-Rousan, M. Bani Yasin, "Data Delivery in Mobile Ad Hoc Networks Using Artificial Intelligence" Proceedings of The 2009 International Conference on Wireless Networks (ICWN'09), Las Vegas, USA, July, 13-16, pp. 401-407, 2009.
13. M. AL-Rousan, M. Jaradat, and L. Quadan "An Intelligent Based Approach for Mobile Robot Navigation in Dynamic Environment", Proc. of the 3rd Int. Conference on Mechatronics (ICOM 08), Malaysia, 2008.
14. M. AL-Rousan, Al-Ali, and A. Talaa, "TCRP: A Tree-Clustering Protocol for Tracking Mobile Targets In Wireless Sensor Networks," International Symposium in Mechatronics, Amman, Jordan, pp. 1-5, 2008
15. M. Al-Fandi1, M. AL-Rousan, M. Jaradat, and K. Al-Zoubi "Nano Engineered Biological Rotary Motors as Ready-to-Use Devices: Integration Challenges, Simulations and Opportunities" Knowledge Based Industries & Nanotechnology Conference, Qatar, Feb. 11-13, pp. 156-158, 2008.
16. M. Al-Rousan, O. AL-Jarrah, and N. Nayef "Neural Networks Based Recognition System for Isolated Arabic Sign Language", The 3rd International Conference on Information Technology (ICIT 2007), Amman, Jordan, May 2007.
17. M. Al-Rousan, A.R. Al-Ali & K. Darwish, "GSM-Based Mobile Tele-Monitoring and Management System for Inter-Cities Public Transportations," IEEE International Conference on Industrial Technology, Dec. 8-10, 2004.
18. M. Ghazal, K. Assaleh, and M. Al-Rousan "Online Recognition of Handwritten Arabic Characters for PDAs" International conference on International Conference on Computational Intelligence, Cyprus, May 2004.
19. K. Assaleh, M. AL-Rousan, and M. Ghazal "Handwritten Arabic Character Recognition Using Co-occurrence Matrices", 8th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2004), Orlando, pp. 202-205, USA, July 18-21, 2004.
20. A. R. Al-Ali, M. AL Rousan and M. Mohandes, "GSM-Based Wireless Home Appliances Monitoring & Control System", IEEE 2004 1st International Conference on Information & Communication Technologies: from Theory to Applications (ICTTA), April, 2004, Syria.
21. M. Al-Rousan, F. Jalajel, F. Arain, A. Auf, "Web-Based Wireless Vehicle Control", Proceedings of the 2003 10th IEEE conference on Electronics, Circuits and Systems, pp. 388-391, Sharjah, UAE, Dec. 2003.
22. A. Ali, M. AL-Rousan, and M. AL-Shekh "Embedded System-Based Mobile Patient Monitoring Device", In Proceeding of the 16th IEEE Symposium on Computer-Based Medical Systems (CBMS 2003), pp. 355-360, New York, NY, June, 2003.
23. M. AL-Rousan, A. Shatnawi and S. Ahmed "Modeling COMA Multiprocessor Systems Based on SCI", Proceedings of 4th Middle East Symposium on Simulation and Modeling (MESM'20002), SCS Europe, pp. 151-155, Sharjah, UAE, September, 2002.
24. A. Rjoub, M. AL-Rousan "On Comparison Results Between Low Power Design Methodologies", Proceeding of the International Arab Conference on Information Technology (ACIT'2001) , pp. 288-292, Nov. 2001.
25. M. AL-Rousan "Reliability Comparison for Hierarchical SCI Multiprocessors", Proceedings of International Conference on Modeling and Simulation, Marbella Spain, pp. 308-313, Sep. 2001.

26. A. Rjoub, M. AL-Rousan, O. Jarrah, and O. Koufopavlou "Multi-Level Low Swing Values for Low Power Design Applications", in the 2001 IEEE International Symposium on Circuits And Systems (ISCAS), Sydney, Australia, pp. IV-590-IV593, May 2001.
27. A. Shaout, O. Jarrah, M. Al-Rousan and A. AL-Nsour "Fuzzy test System", The IEEE Proceedings of The 43rd Midwest Symposium on Circuits and Systems, Jordan, pp.1372-1375, Aug., 2000.
28. **M. Al-Rousan, J. K. Archibald and L. Bearnson "On Improving the performance of Large-Sale Hierarchical SCI Multiprocessors", Proceedings of the IASTED International Conference on Modeling and Simulation. Pittsburgh, USA, pp. 504-508, May 1998.
29. **M. AL-Rousan, L. Bearnson, and J. Archibald "The Two-Processor Reliability of Hierarchical Large-Scale Ring-Based Networks" Proceedings of 29th Hawaii International Conference on System and Sciences, Hawaii, U.S.A., pp. 63-70, Jan. 1996.
30. **M. AL-Rousan, L. Bearnson and J. Archibald "Reliability of Large-Scale Ring-Based Hierarchical Networks", Proceedings of 8th International Conference on Parallel and Distributed Systems, Orlando, Florida, U.S.A., pp. 293-300, Sep. 1995.
31. **M. AL-Rousan, M. Obaidat "MTR: Modified Token Ring Protocol and Its Performance", ACM 92 Computer Science Conference, Kansas City, Missouri, U.S.A., pp. 261-266, Mar. 1992.
32. **M. Obaidat and M. AL-Rousan "A Protocol for Token Ring Local Computer Networks and Its Performance", IEE Electronic Letters, Vol. 27, No. 24, pp. 2393-2394, Dec. 1991.
33. **M. AL-Rousan, M. Obaidat "Performance of A New Token Ring-Based Protocol for Local Area Networks", Proceedings of the 1991 Simulation Technology Conference, Florida, pp. 424-426, Oct. 1991.
34. **M. AL-Rousan "A Protocol for Token Ring Local Area Networks and Its Performance", Master Thesis, University of Missouri-Columbia, U.S.A, Dec.1992.
35. M. Al-Rousan, "Design and Fabrication a Robot Vision System Using Ultra Sonic Transducers and AI", Graduation Project, King Saud University, Saudi Arabia, May 1986.

FUNDS & GRANTS:

1. Co-Investigator, " *Excellence of Nanoscience Education for MENA Region, XNEM*", Funded by European Union (EU), Budget = **€2,500,00**, Granted: 2014-2016.
2. Primary Investigator., "Seed Germination Using Carbon Nano Tube" funded by JUST, Budget=US12,000, 2013.
3. Primary Investigator., " Cisco acitivities", funded by UN Women, Jordan, Budget=US30,000, 2013.
4. Primary Investigator., " Cisco acitivities", funded by UN Women, Jordan, Budget=US36,000, 2012.
5. Primary Investigator, "Vision-based Nano Manipulator", Funded by Royal Court-Jordan, Budget= US \$319142, 2011-2014.
6. Co-Investigator, " Design Nano Robot", Funded by Royal Court-Jordan, Budget= US \$3, 094,857, 2011-2013.
7. Co-Investigator, Mediterranean Virtual University (MVU), Funded by European Union (EU), Budget = **€221,018**, Granted: 2002, Completed: 2006.

8. Co-Investigator in the research Project: “A Novel Biological **Nano-Engineering Robot** as Self-Detector for Cancer Cells”, Funded by Jordan University of Science and Technology, Jordan., Budget 145,300 JD (~ **\$270,570**), Granted period: June 2008 to 2012.
9. Primary Investigator, “Examining Solar Cells Absorption Characteristics Based on Nanotechnology Coating Approaches Using Carbon Nano-Tubes (CNT)” Submitted to Ministry of Higher Education, Jordan, Budget=**\$528571**, submitted Nov. 2008.
10. Co-Investigator in the research Project “Efficient Cryptographic Processor for Internet and Wireless Security Based on Elliptic Curve Cryptography”, Funded Ministry of Higher Education, Jordan. Budget=(**\$79,578**), Granted period: Sept. 2009 to 2011.
11. Co-investigator, “Using Immersive Virtual Reality as an Application for Knowledge Dissemination: A framework for a generic i-teacher”, submitted to Research deanship, Jordan University of Science and Technology, Jordan., Budget=(~ **\$55428**), submitted June, 2009.
12. Partner, “Introducing ICT-based Innovation in Higher Education and Executive Programs of Southern Mediterranean Countries”, Submitted to EU within TEMPUS Program.
13. Main Partner, “Modelling Advanced Training in Emerging Regions”, submitted to EU within the ENPI MED program, led by Association Centro Elis. Italy, Budget=~€ **1,912,702.58**, Submitted, Oct. 2009.
14. Partner, “European and neighbouring countries University Network On Management Information Systems (EUNOMIS)”, Submitted to EU within TEMPUS Projects, leading team: Hasselt University, Hasselt, Belgium, April, 2009, Budget=€ **95,7045**.
15. Travel grants (15 times), budget=(\$2000) each, 1998 through 2014

MASTER THESIS SUPERVISED (PRINCIPLE SUPERVISOR):

1. Hanem Ellethy, 2016
“Intelligent diagnosis of Multiple Sclerosis
2. Elham ASharo, 2013
"Mobile Cloud Computing Modeling"
3. Ahmad Mansoor, 2012
"Public-Key Encryption Method Implementation for Wireless Sensor Networks (WSNs)"
4. Suzan Amareen, 2012
"Content-Based Image Retrieval for Medical Applications Using Low-Level Image Descriptors"
5. Nadia AL-Rousan, June 2011,
"Fuzzy-based prediction Model for Solar Energy Cells"
6. Ahmed Ghorab, in 2011
“Automatic Diagnosis of Glaucoma Using Artificial Intelligent Techniques”
7. Zaid Al-Taleb, in 2010
“Power Harvesting in Wireless Sensor Networks”
8. Lina M. Al-Ebbini, in 2010
“Simulation and Optimization of a Novel Design for the Separation of Microorganisms Using Microfluidic Deterministic Lateral Displacement”.
9. Rami Haddad, Dec. 2008
“Performance analysis of Nano Network Architecture Using Carbon Nanotube”.
10. M. Abdel Hadi, Dec. 2008
“An Intelligent System for Multiple Sclerosis Lesion Detection and Quantification in MRI Image”.
11. L. Quadan, July 2008

- “An Intelligent Based Approach for Mobile Robot Navigation in Dynamic Environment”.
12. A. Nawasrah, July 2007
“Adaptive Forward Error Correction Based on Probability of Loss and Recovery Rates”.
 13. Dima Kullab, Aug. 2007
“Real-Time Communications for Wireless Sensor Networks: A Two-Tiered Architecture”.
 14. M. Sharaf, May 2007
“Improving the Performance of TCP Vegas over Wired-Cum-Wireless Networks”.
 15. N. Nayef, Jan. 2007
“A Vision Based System for Arabic Sign Language Recognition at Word-Phrase levels”.
 16. M. Hammouri, Jan. 2007
“Recognition of Dynamic Gestures in Arabic Sign Language Using HMM”.
 17. M. Hussain, Aug. 1999
“Automatic Recognition of Sign Language Gesture”.
 18. O. Abu Rahmeh, Dec. 1999
“The Impact of DCF and PCF Protocols in Mobile Wireless LANs”.
 19. S. Ahmad, Dec. 1997
“Impact of the Scalable Coherent Interface (SCI) Protocol on COMA Multiprocessors”.
 20. M. Mowafi, June 1998
“K-processor Reliability Analysis of Large-Scale Hierarchical SCI Multiprocessors Ring-Based Networks”

EXAMINER/MEMBER OF SUPERVISION COMMITTEES (Master Thesis):

1. O. Migdadi "Power Aware AODV Routing Protocol for Bluetooth Scatternet", 2007.
2. A. Audat "Executing Divisible Jobs on Ad Hoc Wireless Networks", 2006.
3. W. Sa'adeh "Enhanced AODV Routing Protocol for the Mobile Ad Hoc Networks", 2006.
4. B. Sababha, "Power aware Reliable Multicasting Algorithm for Mobile Ad Hoc Networks", Jan., 2006.
5. A. Qaroush, "Real-Time Power-Aware Routing Protocol for Wireless Sensor Network", May 2006.
6. R. Abu Nafeeseh "A new Technique for Routing in Ad Hoc Networks", 2006.
7. Alaa Halawani, "Recognition of Gestures in Arabic Sign Language Using Neuro-Fuzzy Systems", Jan., 2000.
8. Adel Al-Khateeb, "Cryptographic Key-Based Algorithms over Internet Communication Channels Using Secured Sockets Interface - An Implementation Approach", June 2000.
9. Nabeel Hasasneh "Router Architecture with Collision Avoidance Flow Control in Multicomputers Using Crossbar Switch", July 2000.
10. Issa Qabaja "An Extended Dominating Node Approach to Broadcast in Wormhole-Routed 2D Mesh Multicomputer Networks", Aug., 2000.
11. A. Muhsen, "Reducing Control Latency in Shared Memory Multiprocessor Systems Using Fuzzy Logic", Aug., 1999.
12. Wael Kailli "Feature Extraction Using Partially Compacted Information Based On Digital Terrain Models", 1998.
13. T. Al-Khdour, "Co-Scheduling Hardware and Software Pipelines", Jan., 1998.
14. H. Tawalbeh, "A New Fault-Tolerant Protocol for Direct Multiprocessor Networks", Jan., 1998.
15. O. Bani-Melhem, "Building Fuzzy Maps for Mobile Robot Navigation Based on Ultrasonic Range Data", Aug., 1998.
16. Y. Tashtoush, "Mobile Robot Navigation Using Neuro-Fuzzy Systems", Nov., 1998.

17. Ahed Shniwer "Deadlock detection and resolution in distributed database systems", 1997.

PROJECTS SUPERVISED:

1. A. Abnanh, r. Khasawneh, O. Obeidat, " Spiral (S-shaped) Wind Turbine", 2014
2. Rula Alhayek and Omama Mannaa " Broadcasting Video Over LANs Over JUST TV", 2013
3. Yaya AL-Yahya, "Bio-Nano-Color Sensor", 2010
4. M. Btati, " Nano-Oscillator using SCNT", 2010
5. Laith Shehab, "Nano-Hearing Aid: Analysis and Design", 2011
6. Rana. Karmi, "An Energy Efficient Nano-Transceiver for Wireless Sensor network ", 2011
7. M. AL-Mestarihi, "Carbon Monoxide CO Nano-Sensor" , 2010
8. N. Adnan, "Nano Robot", 2010
9. Voice-Activated Robot, May Kamis, and Nada abu-Rob, 2007.
10. Web-based Wireless Robotics System (Moh. Khreesha), 2007
11. Design an Automatic Arabic Braille Translator Using Neural Networks(Badr ahmed, Hasan Jadallah, Alaa abuLebda, Rami AL-Azri), 2006.
12. E-board System (Zaid ALtaleb, Nowar Obaidat, Lama), 2006
13. Mobile Robot (Ghassan Al-Ashab, Muhammad EL-Hamod, Walid Al-Zebda), 2006
14. Auto-Car Parking System (Yamen Assaf, Rana Barhoosh, Thana'a Saeed) , 2005
15. Design a Mobile Ad-Hoc Wireless Network Routing Protocol (Feras Al-Taher and Mohamad Hinedi, Humaid Abushibbs), AUS, 2002.
16. Remote Instrument Control Over Internet (Noor Shabib, Maher Vrazalic, Ruzbeh Irani), AUS, 2003.
17. Internet Cafe Management System based on Bluetooth (Fathiy Ahmed, Gibin Jacob, Praneeta Shukla, Rajna Tanwani), AUS, 2003.
18. Web based Control of home Appliances (Maniya Alavi, Mohanad Jamjum, sami Jabri, Sameh Besasio), AUS, 2003.
19. Car Control Through the Web (Fuwad Ahmed, Fadi Jalal, Ahmed Auf), 2002.
20. E-Supermarket (Rani Nayef, Samer Miqdadi), 2003.
21. Smart Trolley (Ahmed Lootah, Tariq Abi-Naqa, Nivine Abou EL Najj, Isabella Hobeika), 2003.
22. Intelligent Recognition of Handwritten Arabic Alphabets, M. Ghazal, 2003.
23. Online Doctor (Abdulla Eshazely, Karim Shahin, Jabr AL-Azeeby, Omar AL-Ali), 2003.
24. Vision Eye (Ahmed Al-bawab, Ghazi Dogmash, Mohanad, Khaled Al-hafez), 2003.
25. Voice Recognition Systems, Muhanad Nassar and Basil AL-Ali, 2003
26. Arabic Sign Language, Wassen Al-Zouby and Feras, 2005.
27. Ideal school: An Integrated school management system (Ali Nimer), 2001.
28. GoFree: A Communication System Using Bluetooth (T. Al-Khaseeb, S. Masaad), 2001.
29. Virtual 3D-world project (A. Saffo), 2001.
30. Computerized healthcare center (J. Safadi & H. Alkateeb), 2001.
31. Computerized Healthcare Center (H. Al-Katib & J. Al-Safadi), 2001.
32. Animation of: An invitation to computer science (K. Omer & M. Ramahi), 2000.
33. An invitation to computer science (K. Omer & M. Al-Ramahi), 2000.
34. Using simulink to simulate department courses (K. Mohammed Abu Hadwan), 1999.
35. Teaching deaf people through the internet using Java (M. Oleimat), 1999.
36. C to Java translator (B. Abed Al-Rahman), 1998.

37. Developing computer courses by using Microsoft PowerPoint (B. Izzat Jabber Mohammed), 1998.
38. 3D Animation (M. Ssalam), 1998.
39. Year 2000 problem (F. Abdallah Al-Qaisi), 1998.
40. Implementing a relational database using Ms-Access (Basel W. Ahmad), 1998.
41. Routing in two dimensional mesh multiprocessing system using: store-and-forward and wormhole routing techniques (Husam Obeidat), 1997.
42. Hospital home page (M. Samhan), 1997.
43. EPROM programmer (L. Bani-Melhim), 1997.
44. Home Pages in Java (Amer khalaf), 1996.
45. Animation in visual basic, simulation of local area networks- CSMA/CD , token ring (W. Yared), 1997.
46. The 74xx IC Tester (H. Mohammed), 1996

COURSES TAUGHT/CURRENTLY TEACHING:

A. UNDERGRADUATE COURSES:

- Computer Architectures
- Digital Logic Design Lab
- Computer networks-I (AUS)
- Communications networks (AUS)
- Simulation and Modeling
- Data transmission (communication)
- Microprocessor Design
- Computer design and organization
- Computer System Interface
- Internet Computing (AUS)
- C++ programming language (AUS & JUST)
- Program development & design in JAVA (AUS)
- Object-Oriented programming
- Data structures
- DataBase Design (at Yarmouk University, Jordan)
- Cisco Certified Networking Associate (CCNA) Courses
- Introduction to computer engineering
- Introduction to computer engineering

B. GRADUATE COURSES:

- Image Processing (Kuwait University)
- Artificial Intelligence (Kuwait Univeristy)
- Fault Tolerant Systems (graduate, JUST)
- Advanced Computer Networks (graduate, JUST)
- Advanced Compuetr Architecture (graduate, JUST)
- Advanced Operating Systems (graduate, JUST)
- Advanced Distributed Systems (graduate, JUST)
- Wireless Sensor Networks (graduate, JUST)
- Information Technology for Mechatronics Program (Graduate, AUS)

TEACHING EXPERIENCE

A. Course designed at AUS:

- Redesigned Computer Networks-I course (COE 371) .
- Redesigned Laboratory for Computer Networks-I (COE371L)
- Participated in redesigning Data Communication course (COE 370).
- Designed and developed Laboratory for C++ programming language.
- Designed and developed Java Laboratory
- Participated in improving/restructuring COE curriculum including the development of COE 434 (Mobile Computing), COE 427 (Internet Computing), and COE 494 (E-Commerce).
- Designed graduate courses for the Master of Science in IT (MSIT) including Wireless Networks, Network Programming, Computer Networks, Network Planning and Security, and Network Management.

B. Courses designed at JUST:

- Business Process Management
- Cloud Computing
- Wireless Sensor Networks
- Multimedia
- Modeling and Simulation
- Mobile Computing
- Introduction to Artificial Intelligent
- Computer Networks
- Distributed Systems
- Internet Computing
- Advanced Computer Networks (graduate)
- Multimedia Networking and Communications (graduate)
- Computer Vision Systems (graduate)

C. Development of Curriculum:

- Chair, Service Sciences Management and Engineering
- Chair, Cloud Computing Track
- Chair, curriculum committee, College of Computer and Information Technology, 2009.
- Chair, curriculum committee for the newly established departments (dept. of Network Engineering and Security, and dept. of Software Engineering), 2009.
- Chair, redesigned curriculums for the departments: Computer Engineering, Computer Science, and Computer and Information Science, 2009.
- Member, curriculum committee for master program in Nanotechnology (university level)
- Member in the Master of Science in Information Technology committee (AUS), 2003.
- Chaired the curriculum committee for the undergraduate program at the Computer & Internet Engineering Department (JUST University), 2001
- Chaired the curriculum committee for the master program at the Computer & Internet Engineering Department (JUST University), 2001.

ACADEMIC SERVICES and ACTIVITIES:

⇒ Services at Kuwait University, Kuwait (KU):

- Curriculum committee, Member
- Faculty Promotion Committee, member
- Graduate Committee, member
- Senior Design Committee, member
- Promotion Committee, member (college level)

⇒ **Services at American University of Sharjah (AUS):**

- Self-study (Student-services) committee, member, October 2002, (Univ. Level)
- Evaluated reports submitted to a completion organized by the Industrial Outreach Committee, May 2002 (Univ. level).
- Evaluated reports submitted to the National Bank of Sharjah Competition, Oct., 2002 (Univ. level).
- Participated in COD meeting held for the IT strategic plan in AUS, May 2002, (Univ. level).
- Faculty Promotion Committee, member, Sept 03 – May 04. (College Level)
- Executive Committee, Mechatronics Master Program, 2003 (College Level)
- Master of Science in IT, kick-off committee, member, Mar. 2003, (College Level)
- Summer Internship, chair, Jan. 2002-Jan 2003, (dept. level)
- Seminar committee, chair, Jan. 2002-Jan 2003, (dept. level)
- Degree audit, chair, Jan. 2002 – 2005, (dept. level)
- Curriculum committee, member, Jan.2002- present, (dept. level)

⇒ **Services at JUST:**

a. University level:

- Master in Nano Science and Engineering, chair, 2013
- Nano Technology Steering Committee, 2011-2012.
- University Computer Center, Member, 2008-2012
- University Council, member, 2008-present.
- Deans' Council, member, 2008-present.
- University Academic Development Committee, member, 2008-2011.
- University Regulation, member, 2008-2009.
- Faculty Evaluation Committee, Chairman, 2009.
- Multidisciplinary Master Program in Nanotechnology, member, 2010
- Cisco Academy at JUST, Manager 2009.
- Microsoft Academy at JUST, Manager 2009.
- Council of University Consultation Center, member, 2009-2012
- Established the DART Club for Entrepreneurship, 2010.

b. College level:

- Dean, 2009-2012.
- College Council, chair, 2008- present.
- Research committee, chair, 2008-present.
- Faculty council, member, 1999-2001.
- Student Affairs (College), Chairman, 2007
- Arab International Conference on Information Technology, Co-chair, 2001.
- Started the Robotic Club for Students.
- Founder for Free Open Source Software Club.

c. Departmental level:

- Faculty recruitment committee, chair, 2012-2013
- Curriculum committee, chair, 1998-2000.
- Research committee, chair, 1999-2000, member 1998.
- Promotion/appointment committee, chair, 1998-1999, member 1999-2000.

- Graduate programs committee chair, 1998-2001.
- Tender committee, member.
- Library committee, chair 1999-2000.
- Student's Advisory committee, chair, 2000-2001.
- Social committee, member, 2000-2001.
- Laboratory committee, member, 1998-1999.
- Departmental scientific day, JUST 2000.
- Summer Internship committee, chair, 2000-2001.
- Summer Internship, chair, 2006.
- Research Committee, member, 2005-2008.

Membership of Scientific and Professional Societies

- Jordan Engineers Association
- Jordan Computer Society
- International Society of Computers and their Application (ISCA)

Community activities:

- Steering Committee, member, King Hussien Orphan Association.
- 12/2012-present: serving as a member of Board of trustees, Muotah university, Jordan
- Review Committee for UNWOMEN-Jordan, 2013
- 9/2008-present: serving as a member of Board of trustees, College of Amman Training center, United Nations Relief and works Agency (**UNRWA**).
- Conducted training courses on networking (Cisco).
- Fixed the plasma display problem in the CASA-101 flight simulator (Royal Jordanian Air Force)
- Conducted training courses on C++ for university students.
- Participated in different IT workshops in the region.
- Coordinated an Intel multi-core workshop for Jordanian Universities.

LEADERSHIP ACTIVITIES:

- Member, Advisory board, International Journal of Extreme Automation and Connectivity in Healthcare (IJEACH), IGI publisher, USA.
- Steering Committee, MICRADS'18 - The 2018 Multidisciplinary International Conference of Research Applied to Defense and Security.
- Guest Editor, special issue, **JAIT Journal of Advances in Information Technology (JAIT)**, 2013-2014
- Member, Board of Trustee, Moatah University, Jordan, 2012-2014
- Member, program Committee, The International Conference on Electrical and Computer Engineering 2013 (ICECE 2013), Benghazi, Libya, March 2013.
- Director, Center of Excellence (with IBM), 2010-present
- Member 2008-2013, **Board of Trustees**, College of Amman Training center, United Nations Relief and works Agency (**UNRWA**)
- Member, Board of the Higher Education and Scientific Research Council, Jadadara University, Jordan. 2009-2013.
- Manager, Cisco Academy at JUST, 2008-present.
- Manager, Microsoft Academy at JUST, 2008-2012
- Co-Chair, International Conference on Information and Communication Systems (ICiCS09), Amman, Jordan, 2009, 2011, 2012.
- Guest Editor-in-Chief, special issue, Journal of Emerging Technologies in Web Intelligence (JETWI), 2009-2013.
- Member of Editorial board, International journal of Computer Science and Engineering in Arabic

- Member of Editorial board, Journal of Emerging Technologies in Web Intelligence (JETWI).
- Member, Advisory Committee, The 6th International Conference of Computer Science & Information Technology, <http://csit.asu.edu.jo/csit2014>.
- Member and Initiator, for Free and Open Source Software Project at Arab Region, supported by Unesco and UNDP, Beirut, Lebanon, 2008.
- Invited participant, Conference on “Regional Follow-up to the outcomes of the World Summit for Information Society” Communication and Information Sector at UNESCO, Syria, Damascus 16-18 June 2009.
- Top 25 most downloaded, Journal of Computer Standards and Interfaces: A.R. Al-Ali, M. Al-Rousan and T. Ozkul, “Implementation of Experimental Communication Protocol for Health Monitoring of Patients”, Vol. 28, No. 5, pp. 523-530, 2006-2-14.
- Member of Editorial Board, Journal of Emerging Technologies in Web Intelligence (JETWI), 2009.
- Member of Technical Program Committee, The 1st International Nuclear and renewable Energy Conference (INREC'10), Irbid/Amman, March 21-24, 2010..
- Member of Steering Committee, the 4th International Symposium on Mechatronics and its Applications (ISMA07), May 26, 2008, Amman, Jordan.
- International Liaison Committee, 10nd AUS International Symposium on Mechatronics ISM10, Sharjah, UAE, April, 2010.
- Member of Technical Program Committee, The 3rd International Conference on Simulation, Modeling, and Applied Optimization (ICMSAO-09), Sharjah, UAE January 20 – 22, 2009.
- Member of Steering Committee, the 4th International Symposium on Mechatronics and its Applications (ISMA07), May 26, 2008, Amman, Jordan.
- Member of Steering Committee, ACIT'2009 The International Arab Conference on Information Technology University of Science and Technology, Yemen December 15-17, 2009.
- Member of Program Committee, the 2008 IEEE Region 5 Technical, Professional and Student Conference, April 17-20, 2008, Kansas City, Missouri, USA.
- Session Chair, The 3rd International Conference on Information Technology (ICIT 2007), Amman, Jordan, May 2007.
- Member of Steering Committee, ACIT'2009 The International Arab Conference on Information Technology University of Science and Technology, Tunisia, December, 2008
- Session Chair, 1st International Conference on Digital Communications and Computer Applications (DCCA07), Amman, Jordan, March 2007.
- Member of Steering Committee, the 4th International Symposium on Mechatronics and its Applications (ISMA07), March 26, 2007, Sharjah, UAE.
- International Publicity Chairs, The 4th ACS/IEEE International Conference on Computer Systems and Applications, March 8-11, 2006, Dubai/Sharjah, UAE,
- Organizing Committee, 2nd AUS International Symposium on Mechatronics AUS-ISM05, Sharjah, April, 2005.
- Mentor, 3rd place winning project “Automobile Black Box for Accident Simulation” Computer Society International Design Competition (CDICS 2005), Organized by IEEE Computer Society, Washington DC, USA, 2005.
- Advisory Committee, IBIMA 2005 International Conference on Information Management in Modern Enterprise, July 2004, Amman, Jordan
- Organizing Committee, 2nd AUS International Symposium on Mechatronics AUS-ISM05, , Sharjah, May, 2004.
- Member of the Technical Program Committee, VTC-2003 IEEE Semiannual Vehicular Technology Conference, Oct. 2003.
- Co-Chair: Arab International conference on Information Technology. 2001
- Participated UNESCO workshop on using technology in teaching, Syria, Oct. 2000.
- Member of Program Committee, Parallel and Distributed Systems Conference, ISCA, PDSC, PDSC-2000, USA, 2000.

- Session chair in IASTED conference on Modeling and Simulation, Florida, USA, 1998
- Guest speaker, IEEE Computer Society, Kansas City Chapter, Missouri, U.S.A, 1992
- Referee for many journals and conferences including:
 - Journal of Information Sciences, Elsevier
 - Journal of the Franklin Institute, Elsevier
 - Journal of Soft Computing, Elsevier
 - Journal of Applied Soft Computing, Elsevier
 - IEEE Communication Magazine
 - International Journal of Communication.
 - International Journal of Computer and Applications
 - Electrical and Computer Engineering Journal, Elsevier
 - International Journal of Modeling and Simulation
 - International Journal of Intelligent Systems
 - International Conference on Parallel and Distributed Systems
 - VTC-2003 IEEE Semiannual Vehicular Technology Conference
 - International Symposium of Mechatronics

LANGUAGES

Arabic: Native **English:**Fluent

REFERENCE

1. Omar Al-Jarrah, Professor

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 Jordan University of Science and Technology
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4. Mohammad AL-Fandi, Ph.D.

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5. Khaled Assaleh, Associate Professor

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Ajman University- UAE
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<http://www.aus.edu/engr/ele/people/Assaleh.php>