



- Member of E-Gov Committee, The University of Jordan, AlFaisal International Academy, Amman, Jordan, 2008- Until Now

## **MEMBERSHIP OF SCIENTIFIC AND PROFESSIONAL SOCIETIES**

- Member of the scientific societies: Jordan Informatics Society.
- Member of the Association of information system..

## **MEMBERSHIP OF UNIVERSITY COMMITTEES**

- Member of Scientific Research Committee 2007; Departmental Curriculum Committee, 2007, 2008, 2009, 2010, 2011; etc. Departmental Social Committee, 2007-2011, Departmental Accrediation Committee, 2007-2011.

## **SEMINAR PRESENTATIONS**

- Presented seminars on Mobile Network Security, E-gov in following institutions: Mu'tah University, Al-Albait University, University of Jordan; University of Liverpool, U.K, Jarash Private University, Jarash, Jordan.

## **OTHER ACTIVITIES**

- Acted as a referee for the following journals:
  1. Oxford Journals: The Computer Journal.
  2. European scientific journal ETT, Elsevier..
  3. EURASIP Journal on Wireless Communications and Networking.
  4. Computer Security.
  5. Neural Computing and Applications Journal- Springer.
  6. Journal of Network and Systems Management- Springer.
  7. Kuwait Journal of Science and Engineering.
- MSc Research Students Advisor.
- MSc student external examiner
- External Examiner at University of Jordan- Master Thesis "Lower-face Verification Using Adaptive Correlation Filter", By Rabab Kamel Abu Hurra. Supervisor Dr. Azzam Sleit, November, 2009
- External Examiner at University of Jordan- Master Thesis "Avoiding Congested Nodes in Multicast Routing Protocols", By Najwa Ahmed AL-Mawajdeh. Supervisor Dr. Wessam AL-Mobideen, December, 2009
- External Examiner at University of Jordan- Master Thesis "Improving the Robustness of Image Watermarking against attack", By Afaf Omar Tareef. Supervisor Dr. Azzam Sleit, May, 2010.
- External Examiner at University of Jordan- Master Thesis "Evaluation of SPDA Routing Protocol over MANET", By Dimah Al-Khateeb. Supervisor Dr. Wesam Almobaideen, May, 2010.
- External Examiner at University of Jordan- Master Thesis "Retrieval Of Paper-Watermarks In Manuscripts Using Back-Lighting And Digital Image Processing", By Jamal Nassar Omar Said. Supervisor Dr. Hazem Hiary, April 2011.
- External Examiner at University of Jordan- Master Thesis "Energy-aware Partially Joint Routing Protocol For Wireless Sensors Networks", By Khawla Naji Al-Shonikat. Supervisor Dr. Wesam Almobaideen, December, 2012.
- Internal Examiner at Princess Sumaya University for Technology- Master Thesis "Digital Forensics: Dissecting Malicious PDFs", By Suleiman Jamal Khitan. Supervisor Prof. Jalal Atoum, May 2015
- External Examiner at Mutah University- Master Thesis "", By. Supervisor Dr Mohammad kasassbeh, September 2015.
- External Examiner at University of Jordan- Master Thesis "Studying Reliability and Congestion Control for Transport Protocols over Wireless Sensor Networks", By Intefadah Emad Sami Sa'adeh. Supervisor Dr. Wesam Almobaideen, December, 2015.
- External Examiner at AL-Balqa' Applied University - Master Thesis "Heuristic Approach for Enhancing the Digital Images Quality", By Mo'taz Mohammed Al Freijat. Supervisor Dr. Mohammad Al-Hjouj, December, 2015.

- External Examiner at AL-Balqa' Applied University- Mater Thesis “Modeling Nerve Signals for Forearm Human Muscles”, By Ibrahim Yahya Al-Mherat. Supervisor Dr. Osama Al Dorgham, May, 2016.
- External Examiner at AL-Balqa' Applied University- Mater Thesis “Scalability of the DVFS Power Management Technique Applied on 3-Tier Data Center Architecture in Cloud Computing”, By Saleh Saadeh. Supervisor Dr. Suleman Bani Ahmed, July, 2016.
- Internal Examiner at Princess Sumaya University for Technology- Mater Thesis “Trust Propagation for Data Aggregation over Wireless Sensor Network”, By Muath Saleh Al Saaydeh, Supervisor Dr. Sufyan Almajali, July, 2016
- External Examiner at University of Jordan- PhD Thesis “An Authentication Technique of Mobile Objects for the Internet of Things”, By Maha Saadeh. Supervisor Dr. Azzam Sleit, December, 2017.
- External Examiner at University of Jordan- Master Thesis “Icicle Space-Filling Visualization Technique of Software Structure on Smart Devices small Displays”, By Ahmad Mohammed Al-Tarawneh. Supervisor Abdel Latif abu Dalhom, December, 2017.

### **PROFESSIONAL AND SCIENTIFIC MEETINGS (CONFERENCES, CONVENTIONS, SYMPOSIA AND TRAINING COURSES)**

- International Conference on Global e-Security 2007 (ICGeS07), 3rd International Conference on Global E-ecurity, 2007 London, UK
- The 17<sup>th</sup> IASTED International Conference on Modeling and Simulation (MS-2006), 2006 Montreal, Canada.
- World Wireless Congress (WWC'2006), May 2006, San Francisco, USA.
- Wireless Euro-Mediterranean International Conference (WEMIC 2006), March 2006, Jordan
- 7<sup>th</sup> Annual Postgraduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting PGNet 2006), ISBN 1-9025-6013-9, Page(s): 88-93. June 2006 -Liverpool, UK.
- 1<sup>st</sup> Conference on Advances in Computer Security and Forensics (ACSF), July 2006 - Liverpool, UK.
- IADAT – TCN'2006, International conference on Telecommunications and Computer Networks, September 2006, University of Portsmouth, Portsmouth, UK.
- IEEE Vehicular Technology Conference (VTC 2006), September 2006, Montreal, Canada.
- 15<sup>th</sup> IST Mobile & Wireless Communications Summit, Myconos, Greece, June 2006
- The International Conference on Technology, Ccommunication and Education (i-TCE 2008), i-TCE 2008, Gulf University for Science and Technology, Kuwait.

### **PUBLICATIONS**

1. **AL-Saraireh, J.** (2019). A Novel Approach for Query over Encrypted Data in Database. *International Journal of Information and Computer Security*, 11(6), pp. 621-635
2. Saraireh, S., **AL-Saraireh, J.** and Al-Sbou, Y. (2018). A Hybrid Text – Image Security TechniqueI. *Journal of Theoretical and Applied Information Technology(JATIT)*, 96(9), pp. 2414--2422
3. Saraireh, S., **AL-Saraireh, J.** and Saraireh, M. (2018). Integration of Hash –Crypto= Steganography for Efficient Security Technique. *Internation Journal of Circuits, Sustersms and Signal Processing*, 12(1), pp. 274-278
4. Al-Fayoumi, M., Haj Hamad, R., and **AL-Saraireh J.** (2018). SSOAM: Automated Security Testing Framework for SOA Middleware in Banking Domain. *Journal of Computer Science*. 14 (7): 957.968.
5. **AL-Saraireh, J.** (2017). An Efficient Approach for Query Processing Over Encrypted Database. *Journal of Computer Science*, 13(10), pp. 12-19
6. **AL-Saraireh, J.** (2017). Reducing Authentication Signaling Traffic for LTE Mobile Networks. *International Journal of Applied Engineering Research*, 12(19), pp. 12-19

7. Sattar, A., Al-Fayoumi, M., Al-Fayoumi, M and **AL-Saraireh, J.** (2017). An Efficient E-Coin Scheme Under Elliptic Curve Cryptography Passive DNS Analysis Using Bro-IDS, *The International Conference on New Trends in Computing Sciences (ICTCS)*, pp.185-190
8. Hadi, A., **AL-Saraireh, J.**, Dakhgan, A. and Rababh, D. (2017). Passive DNS Analysis Using Bro-IDS, *The International Conference on New Trends in Computing Sciences (ICTCS)*, pp.121-126
9. **AL-Saraireh, J.** (2017). HVM: A Method for Improving the Performance of Executing SQL-Query Over Encrypted Database. *Journal of Theoretical and Applied Information Technology(JATIT)*, 95(14), pp. 3394-3402
10. **AL-Saraireh, J.**, Saraireh, S. and Saraireh, M. (2015). A Novel Adaptive Contention Window and Distributed Inter Frame Space for IEEE 802.11. *International Review on Computers and Software (I.RE.CO.S.)*, 10(3), pp. 12-18
11. **AL-Saraireh, J.**, Saraireh, M., Saraireh, S. and Bani Younis M. (2014). Adaptive Distributed Inter Frame Space for IEEE 802.11 MAC Protocol. *Communications and Network*, 6(3), pp. 165-174
12. **AL-Saraireh, J.** (2014). Information Retrieval to Improve Search Results. *The 23<sup>rd</sup> International Business Information Management Association (IBIMA) Conference*, Valencia, Malaysia 13-14 May 2014.
13. **AL-Saraireh, J.** and AL Nabhan, M. (2014). Factors analysis for E-Services Adoption in Jordan: A Technology Acceptance Study. *Modern Applied Science*. 8(3), pp. 192-201.
14. Saraireh, M., **AL-Saraireh, J.** and Saraireh, S. (2014). A Novel Adaptive Contention Window Scheme for IEEE 802.11 MAC Protocol. *Journal Trends in Applied Sciences Research*. 9(6), pp. 275-289
15. AL Nabhan, M., Matter N., Hussain, A. and **AL-Saraireh, J.** (2014). Location-Aware Mobile Learning Model: A Case for Positioning Performance Measurements. *Computer and Information Science*. 7(2), pp. 28-35
16. Saraireh S., Al-Sbou Y, **AL-Saraireh J.**, and Alsmadi O. (2014). Image Encryption Scheme Based on Filter Bank and Lifting. *International Journal Communications, Network and System Sciences*, Vol. 7, No. 1, pp. 43-53.
17. **AL-Saraireh, J.** (2013). Studying the Factors that Affecting the Adoption and Acceptance of E-commerce in Jordan. *The 20<sup>th</sup> International Business Information Management Association (IBIMA) Conference*, Kuala Lumpur, Malaysia 25-26 March 2013, pp.323–331.
18. AL Nabhan, M., Haboush, A., **AL-Saraireh, J.** and Matter, N. (2013). A Preliminary Evaluation Study for M-learning Services and Implications for Future Design. *World of Computer Science and Information Technology Journal (WCST)*, Vol.3, No.11, pp. 185-189.
19. **AL-Saraireh, J.**, Saraireh, M., Saraireh, S. and Al Nbhan, M. (2011). Formal Analysis of A Novel Mutual Authentication and Key Agreement Protocol. *Journal of Computer Science and Technology (JCS&T)*. Vol. 11, No. 2, pp.86-92.
20. **AL-Saraireh, J.** and Al-Bdour, H. (2011). Enhancement of Authentication Mechanisms for Roaming Users in Mobile Networks. *World Applied Science Journal*.Vol.13, No. 5, pp.1165-1177.
21. Fayoumi, M. and **AL-Saraireh, J.** (2011). An Enhancement of Authentication Protocol and Key Agreement (AKA) For 3G Mobile Networks. *International Journal of Security (IJS)*. Vol.5, No. 1, pp.35-51.
22. **AL-Saraireh, J.** (2011). Security Performance Analysis and Enhancement of Authentication Protocol in Wireless Mobile Networks. *Journal of American Science*. Vol. 7, No. 5, pp.599-610.

23. **AL-Saraireh, J.** (2011). Efficient and Secure Authentication and Key Agreement Protocol. *International Journal of UbiComp (IJU)*. Vol. 2, No. 2, pp.1- 15.
24. Al-Hawari, M., Al-Obisat, F., **AL-Saraireh, J.** and Mousa, S. (2008). Toward the Factors of E-learning Adoption in High Schools: Jordan Case Study. In: *The International Conference on Technology, Communication and Education, Gulf University for Science and technology, Kuwait 7-9 April 2008*, pp.105–109.
25. AL Nabhan, M., Yousef, S. and **AL-Saraireh, J.** (2006), “Effects of RED and TCP Protocol on the QoS of Multimedia Transmissions Over Wireless Networks”, *Information Technology Journal* 5(4). 689-697, 2006 ISSN 1812-5638
26. **Al-Saraireh, J.**, and Yousef, S. (2006), “Analyses Authentication and Key Agreement (AKA) Protocol for UMTS Mobile Networks,” *IEEE conference, MCWC 2006 - Mobile Computing and Wireless Communications International Conference*, 17-20 September 2006, Amman, Jordan
27. AL Nabhan, M., Yousef, S. and **AL-Saraireh, J.** (2006),” Real Time Multimedia Support in UMTS Networks Using H.323 Protocol and an Efficient Adaptation Filter”, *Fifth IASTED International Conference on Communication Systems and Networks, CSN 2006*, Palma de Mallorca, Spain August 2006
28. AL Nabhan, M., Yousef, S. and **AL-Saraireh, J.** (2006), “H.510 Protocol and HMAL Filter to Support H.323 Multimedia Services in UMTS Networks”, *7<sup>th</sup> Annual Postgraduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting (PGNet 2006)*, Page(s): 147-151. June 2006 -Liverpool, UK
29. AL Nabhan, M., Yousef, S. and **AL-Saraireh, J.** (2006), “Handoff Management in H.323 Mobile Environment”,*15<sup>th</sup> IST Mobile & Wireless Communications Summit*, Myconos, Greece, June 2006
30. AL Nabhan, M., Yousef, S. and **AL-Saraireh, J.** (2006), “Mobility Handoff Management during Active Session Using H.323 protocol”, *IEEE Vehicular Technology Conference (VTC 2006)*, September 2006, Montreal, Canada.
31. **Al-Saraireh, J.**, and Yousef, S. (2006), "Reduce the Network Traffic and Signalling Message for Authentication Process in Mobile Networks", *IADAT – TCN'2006, International conference on Telecommunications and Computer Networks*, September 2006, University of Portsmouth, Portsmouth, UK.
32. **Al-Saraireh, J.**, and Yousef, S. (2006), "Investigate the Performance of Signalling Traffic and Load Transaction between Mobile Entities", *1<sup>st</sup> Conference on Advances in Computer Security and Forensics (ACSF)*, July 2006 -Liverpool, UK.
33. **Al-Saraireh, J.**, and Yousef, S. (2006), "Classification of Security Authentication for Roaming User in Mobile Networks", *7<sup>th</sup> Annual Postgraduate Symposium on the Convergence of Telecommunications, Networking and Broadcasting (PGNet 2006)*, ISBN 1-9025-6013-9, Page(s): 88-93. June 2006 -Liverpool, UK.
34. **Al-Saraireh, J.**, Yousef, S. and AL Nabhan, M. (2006), "Analysis and Enhancement Authentication Algorithm in UMTS Networks", *Wireless Euro-Mediterranean International Conference (WEMIC 2006)*, March 2006, Jordan.
35. **Al-Saraireh, J.**, and Yousef, S. (2006), "Analysis and Enhancement Authentication Protocol for UMTS Mobile Networks Based on Public Key", *World Wireless Congress (WWC'2006)*, May 2006, San Francisco, USA.
36. **Al-Saraireh, J.**, and Yousef, S. (2006), "A new Authentication Protocol for GSM and UMTS Networks", *The 17<sup>th</sup> IASTED International Conference on Modeling and Simulation (MS-2006)*, 2006 Montreal, Canada.
37. **Al-Saraireh, J.**, and Yousef, S. (2007), "Reducing Authentication Transmission Overhead Between Entities in Mobile Networks", *International Conference on Global e-Security 2007 (ICGeS07)*, *3rd International Conference on Global E-Security*, 2007 London, UK
38. **Al-Saraireh, J.**, and Yousef, S. (2006), “Extension of Authentication and Key Agreement Protocol (AKA) for Universal Mobile Telecommunication System (UMTS)”, *Journal of Theoretical and Applied Computer Sciences*, vol. 1, no. 1 (2006), Page(s): 109–118

39. **Al-Saraireh, J.**, Yousef, Y. and AL Nabhan, M. (2006), "Analysis and Enhancement of Authentication Algorithms in Mobile Networks", *Journal of Applied Science, Network for Scientific Information*, vol. 6 no. 4, ISSN 1812-5654. Page(s): 872-877.
40. **Al-Saraireh, J.**, and Yousef, S. (2006), "Authentication Transmission Overhead Between Entities in Mobile Networks", *(IJCSNS) International Journal of Computer Science and Network Security*, vol.6, No.3, ISSN 1738-7906, March, 2006. Page(s):150-154.
41. **Al-Saraireh, J.**, and Yousef, S. (2006), "A New Authentication Protocol for UMTS Mobile Networks", *EURASIP Journal on wireless communications and networking*, vol. 2006. Pages(s): 1-10, Article ID 98107
42. **Al-Saraireh, J.**, and Yousef, S. (2007), "Analytical Model: Authentication Transmission Overhead Between Entities in Mobile Networks", *Elsevier, Computer Communications Journal*, vol. 30, no. 9. Page(s):1713-1720.