

Curriculum Vitae

Dr. Iman Almomani, BSc, MSc, PhD, Senior MIEEE, WIE
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Personal Details:

Name: Iman M. J. Almomani
Nationality: Jordanian
Tel. Number: + 966 (11) 4548311
Address (work): Computer Science Department,
College of Computer and Information Sciences,
Prince Sultan University
Riyadh, Kingdom of Saudi Arabia
E-mail: imomani@psu.edu.sa

Academic Qualifications:

August 2007 **Ph.D.** in Computer Science
Major: Wireless Network Security
De Montfort University, UK, <http://www.dmu.ac.uk>
Thesis Title: Security Solutions for Wireless Mobile Ad hoc Networks (WMANETs)
Supervisors: Professor Hussein Zedan, Dr. Amelia Platt
June 2002 **M.Sc.** in Computer Science, Average 3.91 / 4.
The University of Jordan, <http://www.ju.edu.jo>
June 2000 **B.Sc.** in Computer Science, Average 3.91 / 4
UAE University, <http://www.uaeu.ac.ae/>
Graduation Project: CORBA-Based Secure E-Commerce System
1996 General Secondary Education Certificate Exam Scientific Branch, Average 97.5%

Specialization

Computer Networks and Security

Academic Posts

9/2017-Present	Associate Director of Research and Initiatives Center (RIC)
8/2015 -Present	Associate Chair (Female Campus), Computer Science Department, College of Computer and Information Sciences, Prince Sultan University, Riyadh, Kingdom of Saudi Arabia
8/2014 -Present	Associate Professor, Computer Science Department, College of Computer and Information Sciences, Prince Sultan University, Riyadh, Kingdom of Saudi Arabia
12/2012 -Present (On Unpaid Leave since 8/2014)	Associate Professor, Computer Science Department, King Abdullah II School for Information Technology, The University of Jordan, Amman, Jordan
09/2007 -12/2012	Assistant Professor, Computer Science Department, King Abdullah II School for Information Technology The University of Jordan, Amman, Jordan
2009- 2010	Chair of Computer Science Department, King Abdullah II School for Information Technology, The University of Jordan, Amman, Jordan
2002-2004	Teaching Assistant The University of Jordan

Professional Membership, Editorial Board and Technical Committees

1. IEEE Senior Member.
2. Member of IEEE Women in Engineering (WIE).
3. Technical reviewer:
 - IET Information Security/ IET.
 - Wireless Personal Communications/ Springer.
 - International Journal of Security and Networks/ Inderscience.
 - IET Wireless Sensor Systems/ IET.
 - Computer Journal/ Oxford Journals.
 - IEEE Transactions on Industrial Informatics.
 - KSII Transactions on Internet and Information Systems.
4. Technical committee and peer reviewer – International Arab Conference on e-Technology, October 15-16, 2008, Amman, Jordan.
5. Session Chair – Eleventh WSEAS International Conference on Fuzzy Systems (FS'10), 13-15 June, 2010, Iasi, Romania.
6. Technical Program Committee – Mosharaka International Conference on Communications and Electronic Systems, Mesh, Ad Hoc and Sensor Networks (MAS) Track, 4-6 November 2011, Amman, Jordan.
7. Local Organization Committee – 2011 Pan Arab Cyber Security Day, 21-23 November 2011, Amman, Jordan.
8. Security Track Chair + Technical Program Committee member – IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2011), 6-8 December 2011, Amman, Jordan.
9. Keynote Speaker- Philadelphia University Scientific Day entitled **“Computing: Directions and Challenges”**, 15 May 2013, Amman, Jordan.
10. Smart Systems for Renewable Energy Track Chair + Technical Program Committee – 2013 1st International Conference & Exhibition on the Applications of Information Technology to Renewable Energy Processes and Systems (IT-DREPS 2013), 29-30 May 2013, Amman, Jordan.
11. Communications & Networking Track Chair - The Second IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2013), 3-5 December, 2013, Amman, Jordan.
12. Proctor for the teams representing Prince Sultan University, Riyadh, KSA participating in IEEEExtreme 8.0 Programming challenge, 18/10/2014.
13. Technical Program Committee member – IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT 2015), 3-5 November 2015, Amman, Jordan.
14. Proctor for the teams representing Prince Sultan University, Riyadh, KSA participating in IEEEExtreme 9.0 Programming challenge, 24/10/2015.

15. Technical Reviewer, Cybersecurity & Cyberforensics Conference (CCC2016), 2-4 August 2016, Amman, Jordan.
16. Proctor for the teams representing Prince Sultan University, Riyadh, KSA participating in IEEEExtreme 10.0 Programming challenge, 22/10/2016.
17. Proctor for the teams representing Prince Sultan University, Riyadh, KSA participating in IEEEExtreme 11.0 Programming challenge, 14/10/2017.
18. Technical Program Committee, 5th International Symposium on Data Mining Applications (SDMA2018), March 21-22, 2018, Riyadh, KSA.

Prizes – Awards

1. The University of Jordan Distinguished Researcher Award for the year 2011.
2. Information Technology Student's Activity Fair (ITSAF), University of Petra (UoP), 13-14 of July 2011. **1st Place Award-research category**, "*Secure Cluster-Based Protocol for Wireless Sensor Networks with Fair Energy Architecture*".
3. Information Technology Student's Activity Fair (ITSAF), University of Petra (UoP), 6-7 of July 2010. **1st Place Award-applicable to the market category**, "*GPS Vehicle Tracking and Management System*".
4. 1st First Lego League Arabia Championship, Dead Sea, Jordan 27-29 of March 2009 – **Proof of Concepts Award.**
5. 1st First Lego League Arabia Championship, Dead Sea, Jordan 27-29 of March 2009 – **Audience Voting 1st Place Award.**

Funded Projects/Researches

1. RDS: Ransomware Detection System for Android Applications, Prince Sultan University-College of Computer and Information Sciences, 2018.
2. Investigating the Use of Encryption Techniques and Different Speech Coders with Multimedia Streaming. Deutsche Forschungsgemeinschaft (DFG) Research visit to Frankfurt University of Applied Sciences, Frankfurt, Germany. 24/7/2014-20/8/2014.
3. Fleet Management and Optimal Route Planning using GIS Techniques and Cellular Networks - King Abdullah II Fund for Development (KAFFD) + King Abdullah II Design and Development Bureau (KADDB), 2013.
4. HeliRobot: A prototype was built for flying robot using Lego NXT. The University of Jordan - Deanship of Academic Research (DAR), 2011.
5. Robot Library Assistant System: A prototype was built for a library assistant robot using Lego NXT. The University of Jordan - Deanship of Academic Research (DAR), 2010.

Research Interests

Network Security

Wireless Network security
Cryptography
Intrusion Detection Systems (IDS)
Android Security

Wireless Networks:

Wireless Mobile Ad hoc Networks (MANETs)
Wireless Sensor Networks (WSNs)
WiMAX (IEEE 802.16)

Multimedia Networking:

Voice over IP (VoIP) & Quality of Speech Aspects
IPTV

Software Engineering

Software Development Processes

Programming Languages and Simulation

C++, Java, VB, NS-2, Qualnet.

Learning Methodologies

Electronic Learning (E-Learning)
Mobile Learning (M-Learning)

Publications:

- **International Journals**

1. **Iman Almomani**, Mamdouh Alenezi, “*Efficient Denial of Service Attacks Detection in Wireless Sensor Networks*”, Journal of Information Science and Engineering, Vol. 34, No.4, July, 2018, pp. 977-1000.
2. **Iman Almomani**, Maha Saadeh, “*S-FEAR: Secure-Fuzzy Energy Aware Routing Protocol for Wireless Sensor Networks*”, KSII Transactions on Internet and Information Systems, vol. 12, no. 4, April 30, 2018, pp. 1436-1457. DOI: 10.3837/tiis.2018.04.003.
3. **Iman Almomani**, Ahlam Alsarheed, “*Enhancing outpatient clinics management software by reducing patients’ waiting time*”, Journal of Infection and Public Health, Volume 9, Issue 6, November–December 2016, Pages 734-743.
4. **Iman Almomani**, “*Investigating the Use of Encryption Techniques and Different Speech Coders with Multimedia Streaming*”, International Journal of Computer Science and Information Security, Volume 14, No. 9, September 2016.
5. **Iman Almomani**, Bassam Kassarbeh and Mousa AL-Akhras “*WSN-DS: A Dataset for Intrusion Detection Systems in Wireless Sensor Networks*”, Journal of Sensors, Vol. 2016, Article ID 4731953, 16 pages, 2016. doi:10.1155/2016/4731953

6. **Iman Almomani**, Eman Al-Banna, and Mousa AL-Akhras, "*Logic-Based Security Architecture for Systems Providing Multihop Communication*", International Journal of Distributed Sensor Networks, vol. 2013, Article ID 768489, 17 pages, 2013. doi:10.1155/2013/768489.
7. **Iman Almomani**, Maha Saadeh, "*Security Model for Tree-based Routing in Wireless Sensor Networks: Structure and Evaluation*", KSII Transactions on Internet and Information Systems, Vol. 6, No. 4, 2012, pp. 1223-1247.
8. **Iman Almomani**, Maha Saadeh, Mousa AL-Akhras, Hamzeh AL Jawawdeh, "*A Tree-Based Power Saving Routing Protocol for Wireless Sensor Networks*", International Journal of Computers and Communications, University Press, Vol. 5, No. 2, 2011, pp. 84-92.
9. **Iman Almomani**, Mohammed Al-Saruri, Mousa AL-Akhras, "*Secure Public Key Exchange against Man-in-the-Middle Attacks During Secure Simple Pairing (SSP) in Bluetooth*", World Applied Sciences Journal, Vol. 13, No. 4, 2011, pp.769-780.
10. **I. Almomani**, O. Karajeh and L. Abdulla, "*Reducing the Vulnerability of Broadcast Authentication against Denial of Service Attacks in Wireless Sensor Networks*", MEDJCN: Mediterranean Journal of Computers and Networks, Vol. 7, No. 2, 2011, pp. 192-201.
11. **Iman M. Almomani**, Maha K. Saadeh, "*FEAR: Fuzzy-Based Energy Aware Routing Protocol for Wireless Sensor Networks*", International Journal of Communications, Network and System Sciences (IJCNS), Scientific Research Publishing, Vol. 4, No. 6, 2011, pp. 403-415.
12. Mousa AL-Akhras, **Iman Almomani** and Azzam Sleit, "*An Improved E-Model Using Artificial Neural Network VoIP Quality Predictor*", Neural Network World, Vol. 21, Issue 1, 2011, pp. 3-26.
13. **Iman Almomani**, "*Copyrights Protection Schema: A Secure PDF Reader*", International Journal of Computer science and Network Security (IJCSNS), Vol. 10, No. 12, December 2010, pp. 15-25.
14. **Iman Almomani**, Emad Almashakbeh, "*A Power-Efficient Secure Routing Protocol for Wireless Sensor Network*", WSEAS TRANSACTIONS on COMPUTERS, Vol. 9, Issue 9, September 2010, pp. 1042-1052.
15. Mousa T. AL-Akhras and **Iman M. Almomani**, "*Design and Implementation of a SIP-based E-Learning System*", International Journal of Internet Education (IJIE), Vol. 4, July 2009, pp. 78-91.
16. M. AL-Akhras, H. Zedan, R. John, **I. Almomani**, "*Non-Intrusive Speech Quality Prediction in VoIP Networks using a Neural Network Approach*", Neurocomputing, Vol. 72, Issue 10-12, June 2009, pp. 2595-2608.
17. **Iman Almomani**, Hussein Zedan, "*Heterogeneous Certificate Authority for Wireless Mobile Ad hoc Networks (WMANETs)*", International Journal on Computer Science and Information System (IJCSIS Journal), Volume 2, Number 1, April 2007, pp.1-17.

18. I. Almomani, M. Al-Akaidi, P. Reynolds and J. Ivins, “*Architectural Framework for Wireless Mobile Ad hoc Networks (AF WMANETs)*”, Computer Communications, Volume 30, Issue 1, 15 December 2006, pp.178-191.

- **International & Local Conferences**

1. Mamdouh Alenezi, **Iman Almomani**, “*Empirical Analysis of Static Code Metrics for Predicting Risk Scores in Android Applications*”, 5th Symposium on Data Mining Applications (SDMA2018), 21-22 March, 2018, Riyadh, KSA.
2. Fifth annual Middle East & North Africa Information Security Conference (MENA Information Security Conference 2017), at the prestigious Burj Rafal Hotel Kempinski, Tuesday, 21 November 2017, Riyadh, Saudi Arabia – **Attendant**.
3. Mamdouh Alenezi, **Iman Almomani**, “*Abusing Android Permissions: Security Perspective*”, 2017 IEEE Jordan Conference on Applied Electrical Engineering and Computer Technologies, 11-13 October, 2017, Amman, Jordan
4. The 2nd International Cyber Security Conference (ICSC), Organized by National Cyber Security Center (NCSC), 27th -28th 2017, Security Forces Officer’s Club, Riyadh, Saudi Arabia – **Attendant**.
5. The 3rd Saudi International Conference on Information Technology: Cybersecurity, 29-30 March, 2016, KACST Headquarters, Riyadh, KSA – **Attendant**.
6. **Iman Almomani**, Bassam Al-Kasasbeh, “*Performance Analysis of LEACH protocol under Denial of Service Attacks*”, IEEE International Conference on Information and Communication Systems (ICICS 2015), 7-9 April, 2015, Amman, Jordan.
7. Hamzeh Aljawawdeh, **Iman Almomani**, “*Dynamic Load Balancing Protocol (DLBP) for Wireless Sensor Networks*”, 2013 IEEE Jordan Conference on Applied Electrical Engineering and Computer Technologies, 3-5 December, 2013, Amman, Jordan.
8. Lamyia Abdullah, **Iman Almomani**, Ala' F.A Aburumman, “*Secure Cluster-Based SIP Service over Ad Hoc Networks*”, 2013 IEEE Jordan Conference on Applied Electrical Engineering and Computer Technologies, 3-5 December, 2013, Amman, Jordan.
9. **Iman Almomani**, Enas Ahmad, Nour Alkhalil, Rania Judi, “*Ubiquitous GPS Vehicle Tracking and Management System*”, 2011 IEEE Jordan Conference on Applied Electrical Engineering and Computer Technologies, 6-8 December, 2011, Amman, Jordan, pp. 316-321.
10. **Iman Almomani**, Mousa Al-Akhras, “*Internet Skills in Scientific Research- In Arabic*”, The Fifth Conference on Scientific Research in Jordan, 19 October 2011, Amman, Jordan.
11. **Iman Almomani**, Maha Saadeh, Hamzeh Al Jawawdeh, Mousa Al-Akhras, “*Energy Awareness Tree-Based Routing Protocol for Wireless Sensor Networks*”, The 10th WSEAS International Conference on Applied Computer and Applied Computational Science (ACACOS '11), 8-10 March, 2011, Venice, Italy, pp. 26-30.

12. First Regional Conference for IPR and Cyber Crimes in Cooperation with Department of National Library, Adobe System & Co., 24-25 October, 2010, Grand Hyatt Hotel, Amman, Jordan – **Attendant**.
13. **Iman Almomani**, Asma' Abdel Aziz and Mousa AL-Akhras, "*Secure and Power Saving Routing Protocol for Wireless Sensor Networks*", 11th WSEAS International Conference on Fuzzy Systems (FS'10), 13-15 June, 2010, Iasi, Romania, pp. 209-214.
14. **Iman Almomani**, Ola Karajeh and Lamya Abdulla, "*Pre-Authenticator and Adaptive Window-Based DoS Containing Scheme for Broadcast Authentication in Wireless Sensor Networks*". The 3rd Mosharaka International Conference on Communications, Networking and Information Technology (MIC-CNIT 2009), 21-23 December, 2009, Amman, Jordan, ISBN 978-9957-486-09-9, pp. 7-13.
15. **Iman Almomani**, Maryam Al-Sharief and Rawa'a Al-Jabaly, "*Building Reputation Of Suspicious Nodes In Cluster-Based Intrusion Detection System For Wireless Sensors Networks*", The 3rd Mosharaka International Conference on Communications, Networking and Information Technology (MIC-CNIT 2009), 21-23 December, 2009, Amman, Jordan, ISBN 978-9957-486-09-9, pp. 14-18.
16. **I. Almomani**, "*Secure Wireless Communication for Mobile Surgical Army Hospitals*", The 2008 International Conference on Wireless Networks (ICWN'8), July 14-17, 2008, Monte Carlo Resort, Las Vegas, Nevada, USA, pp. 628-633.
17. **I. Almomani** and M. Al-Akhras, "*Statistical Speech Quality Prediction in Voice over IP Networks*", The 2008 International Conference on Communications in Computing (CIC'8), July 14-17, 2008, Monte Carlo Resort, Las Vegas, Nevada, USA, pp. 146-152.
18. **Iman Almomani**, Hussein Zedan, "*Secure Distributed Key Management for Wireless Mobile Ad hoc Networks (WMANETs)*", IADIS International Conference Applied Computing 2007, Salamanca, Spain.
19. **Iman Almomani**, Hussein Zedan, "*End-to-End Security Solution for Wireless Mobile Ad hoc Network (WMANET)*", IADIS International Conference Applied Computing 2007, Salamanca, Spain, ISBN: 978-972-8924-30-0, pp. 624-629.
20. **I. Almomani**, M. Al-Akaidi, J. Ivins, P. Reynolds, "*Architectural Framework for Wireless Mobile Ad hoc Networks (WMANETs)*", The 6th IEE International Conference ON 3G & BEYOND (3G 2005), 7-9 November 2005, The IEE, Savoy Place, London, UK.

- **Books**

1. **Iman Almomani**, "*Security Solutions for Wireless Mobile Ad hoc Networks*", ISBN: 978-3-8465-0839-8, International Book Market Service publisher, Germany, 27 December, 2011.
2. Mousa AL-Akhras and **Iman Almomani**, "*Internet Skills in Scientific Research*", ISBN: 978-9957-72-040-7, ZAMZAM publisher and distributor, Amman, Jordan, 2010.

- **Book Chapters**

1. Mousa AL-Akhras and **Iman Almomani**, "*VoIP Quality Assessment Technologies - Book: VoIP Technologies*", ISBN: 978-953-7619-X-X, INTECH Open Access Publisher, Vienna, Austria.

Attended Workshops, Training Courses with Certificates, Competitions

Sustainability in Higher Education- Certificate of Program Completion- 24 October, 2017.

IBM Certificate

Security Intelligence Analyst - **Mastery** Award for Educators 2016

Security Intelligence Analyst - **Explorer** Award for Educators 2016

Prince Sultan University Workshops/ Exhibition/Competitions

2nd PSU Research Exhibition "بحثى لمجتمعى", Poster Session, Reseach and Translation Center, Prince Sultan University, March 2016.

SAP Youth Jam, Development, given at Prince Sultan University, Riyadh, KSA on 27th January 2015, from 11.00 AM - 1.00 PM.

Agile Manifesto and Principles of Agile Software Development, given at Prince Sultan University, Riyadh, KSA on 5th of March 2015 from 10 am to 12 pm.

Saudi Arabia ACM Professional chapter Inaugural Ceremony, given at Prince Sultan University, Riyadh, KSA on 13th of April.

Moving to Cloud with Google Apps Unlimited Boundaries, Workshop given at Prince Sultan University, Riyadh, KSA on April 28, 2015.

Series of workshops on Moodle Blackboard and training.

CCIS open day, first place, Poster Category, WiFi security, 2016.

Capture The Flag (CTF), King Abdulaziz City for Science and Technology/The National Center for Cyber-security Technology, (KACST/C4C), 2016.

C4i Competition (Cyber Arabia) contest, King Saud University in coordination with the Saudi Ministry of Defense as part of "the International Conference on C4I Solutions" events. , CS391 team was one of the winning teams and has been awarded SR 10,000 cash prize, 2016.

Staff Training Courses – with certificates (The University of Jordan)

University Work Ethics	2 Hours	6/2/2012
Laws and Regulation of the University of Jordan	6 Hours	2-5/2/2012
Learner's Assessment and Test Preparation	12 Hours	29/1-1/2/2012
Effective Skills of University Teaching	12 Hours	23-26/1/2012
Teaching Strategies	12 Hours	17-22/1/2012
Design of Study Plan	6 Hours	15-16/1/2012

Other Workshops

Writing Proposal for FP7 People Programme, given by Mr. Leonardo Piccinnett, the University of Jordan. 13/4/2010.

Research Training Program - with certificates (De Montfort University, UK)

Typesetting Documents Using LaTeX

05/04/2006

Creating and Managing Large Documents

04/04/2006

Effective Presentation Using PowerPoint

27/03/2006

Using SPSS

10/03/2006

Finishing Your Thesis and Preparing for the Viva

09/03/2006

Managing Data Using Excel

23/02/2006

Written Application Skills and Job Interview Skills

14/06/2005

Writing for Publication

20/06/2005

Presenting Your Research to an Audience

02/03/2005

Research Methods

23/10/2004

Literature Searching and Reference Management

23/06/2004

English Language for Academic Research Purposes

22/06/2004

Intellectual Property Rights and Ethics

15/06/2004

Writing Skills

24/05/2004

Planning and Managing Research

02/05/2004

Research Students Induction Event

29/03/2004

22-

Committees

- **Prince Sultan University, Institutional Level Committee:**
 - PSU Ranking Improvement Committee (2018-2019)
 - Institutional Review Board (PSU-IRB) (2018-2019)
 - The Institutional Strategic Planning Steering Committee (2016-2017)
 - Executive Research Committee (ERC) (2017 – Present)
 - IT Strategic Committee (2015 – 2017)
 - Campus Quality Committee (2015 – Present)
- **Prince Sultan University, Computer Science Department & CCIS (2014 – Present):**
 - Quality Committee
 - Research Committee
 - Master Proposal Reviewing Committee
 - Master Thesis Defense Committee
 - CCIS Faculty Graduate Studies Committee
 - Recruitment Committee
 - College Council
 - ABET Steering Committee

- **The University of Jordan, University level Committees, (2011 – 2014):**
 - UoJ Website Evaluation Committee.
- **The University of Jordan, King Abdullah II School for Information Technology, (2007 – 2014):**
 - Ph. D. Program Admission Exam.
 - Higher Studies Committee.
 - Curriculum Planning Committee.
 - Scientific Research, Conferences, Seminars, and Expositions Committee.
 - Supervising Committee on Students Union’s Elections.
 - Social Committee.
 - Quality Assurance & Examination Committee.
 - Equalizing Courses Committee for Transferred Students.
 - Faculty’s Infrastructure Committee.
 - Student’s Affairs Committee.
- **The University of Jordan, Computer Science Department, (2007 – 2014):**
 - Higher Studies Committee.
 - Curriculum Planning Committee.
 - Appointment and Promotion Committee.
 - Students’ Training Committee.
 - M.Sc. Theses Examination Committees.
 - Social Committee.
 - M.Sc. Comprehensive Exam Committee.
 - Students Counseling Committee.

Teaching - Previously Taught Courses

Software Development Processes (Master Software Engineering program)
 Network Security (Master)
 Wireless Networks (Master)
 Computer Networks (Master)
 Computer Network -1
 Computer Network – 2
 Computer and Network Security
 Network Programming
 Distributed Systems
 Data Structure
 Discrete Mathematics
 C++
 Advanced C++
 Java
 Advanced Java
 Computer Skills

Selected Graduation Projects Supervision

1. JU Navigator: Android Application, 2013.
2. Security Penetration Test for E-Learning Environment, 2012.
3. Mobile-based Taxi Service, 2012.
4. Helirobot: A flying robot, 2012- **Funded Project.**

5. Robot-based Overhead Crane, 2011.
6. Energy Efficient Intrusion Detection System for Wireless Sensor Networks (WSNs), 2011.
7. GPS tracking System, 2010.
8. Iris Recognition System, 2010.
9. Landmine Detection System (Bamboozleing Bot), 2010.
10. Mobile Shopping System (MobiShop), 2009.
11. Mobile Blackboard System, 2009.
12. Mobile Lecturing System, 2008.
13. Mobile Quiz System using J2ME, 2008.
14. Multimedia Voice and Video Conferencing System using SIP Protocol Using Java programming language, 2007.
15. Robot Library Assistant System (RLAS), 2008- **Funded Project**.
16. KASIT Attendance System, 2007.

Master Thesis Supervision

1. Samah Alsoghyer, "Comparative Analysis of Android Ransomware Detection Techniques", Department of Computer Science, Prince Sultan University, 2018.
2. Shahd Abdulrahman Attar, "Data Flow Security Analysis for Android Applications", Department of Computer Science, Prince Sultan University, 2017.
3. Afnan Al-Romi, "*An Enhanced Hierarchical Energy Efficient Intrusion Detection System for Malicious Packet Dropping Attacks in Wireless Sensor Networks*", Department of Computer Science, Prince Sultan University, 2015.
4. Haneeh F. Al-Anize, "*Performance Comparison of Linear Regression and Artificial Neural Networks in Developing Credit Risk Models*", Department of Computer Science, Prince Sultan University, 2014.
5. Ahlam AlSarheed, "*The Impact of Applying Software Engineering in Improving Patient Flow in Outpatient Clinics in the Healthcare of Saudi Arabia*", Department of Computer Science, Prince Sultan University, 2014.
6. Bassam Kasasbeh, "*A Mechanism for Detecting and Classifying Denial of Service Attacks in Wireless Sensor Networks Sensor Networks using Artificial Neural Networks*", Department of Computer Science, The University of Jordan, 2014.

7. Amenah Qousini, *"Role-Based Access Control Model for Privacy Preservation in Cloud Computing Environment"*, Department of Computer Science, The University of Jordan, 2013.
8. Hamzeh AL Jawawdeh, *"Energy-Balanced Topology for Wireless Sensor Networks"*, Department of Computer Science, The University of Jordan, 2012.
9. Katrina Sundus, *"Mobility Effect on Broadcast Authentication for Wireless Sensor Networks"*, Department of Computer Science, The University of Jordan, 2011.
10. Eman Albanna, *"Interference-aware Multipath Routing Protocol for Wireless Mobile Ad hoc Networks"*, Department of Computer Science, The University of Jordan, 2011.
11. Maha Khaled, *"Secure Routing Protocol for Wireless Sensor Networks"*, Department of Computer Science, The University of Jordan, 2011.
12. Lamyia Omar, *"Distributed Secure SIP Service over Ad Hoc Networks"*, Department of Computer Science, The University of Jordan, 2010.
13. Ola Karajeh, *"Securing Wireless Sensor Networks against Denial of Service Attacks"*, Department of Computer Science, The University of Jordan, 2010.
14. Mohammed Al-Saruri, *"Enhanced Scheduling Scheme for IEEE 802.16 Traffic to Achieve Quality of Service"*, Department of Computer Science, The University of Jordan, 2009.
15. Ala' Fahad Aburumman, *"Securing SIP over Ad hoc Network"*, Department of Computer Science, The University of Jordan, 2009.
16. Anas Liswi, *"Collaborative Mobile Learning Architecture Based on Mobile Agents"*, Department of Computer Science, The University of Jordan, 2009.
17. Eman Alwadiya, *"Multipath Quality of Service Routing Protocol for Mobile Ad hoc Networks"*, Department of Computer Science, The University of Jordan, 2009.

Master Thesis Committees

1. Abdullatif Bn Abdulraouf Alamudy, *"Internet of Things Security Challenges: The ZigBee Case"*, Master of Software Engineering, Prince Sultan University, 2017.
2. Mubarak Saad Alharbi, *"Measuring User Experience with Mobile Applications: Exploratory Study"*, Master of Software Engineering, Prince Sultan University, 2016.
3. Saba Talal Hamdan, *"Software Quality Framework for Continuous Integration"*, Master of Software Engineering, Prince Sultan University, 2015.
4. Norah Naif Al-Romi, *"A Software Quality Model for Evaluating Medical Simulation Tools"*, Master of Software Engineering, Prince Sultan University, 2015.
5. Amani Mohammed Goniemat, *"Analysis and critical evaluation of residue number system converters"*, Department of Computer Engineering, The University of Jordan, 2013.

6. Marwa K. S. Salayma, *"Power Efficiency Model for Zigbee Networks"*, Department of Computer Science, Jordan University of Science and Technology, 2013. **External Examiner.**
7. Khawla Naji Al-Shonikat, *"Energy-aware Partially Joint Routing Protocol for Wireless Sensor Networks"*, Department of Computer Science, The University of Jordan, 2013.
8. Muhammad Adnan Jassim, *"A Multi-function Energy-Efficient System Model for Location-Aware Wireless Sensor Networks"*, Department of Computer Science, The University of Jordan, 2011.
9. Rodwan Shalalfeh, *"Best Utilization of Mirroring Server Resources using Artificial Neural Networks"*, Department of Computer Science, The University of Jordan, 2011.
10. Fatima Abo Alsauwd, *"Dual Recognition of Multi-Script License Plates"*, Department of Computer Science, The University of Jordan, 2010.
11. Maryam Al-sharief, *"Evaluation of Automatic Human Identification Algorithm using facial Features"*, Department of Computer Science, The University of Jordan, 2010.
12. Rasha Beidas, *"Skin Cancer Recognition by using Neuro-Fuzzy System"*, Department of Computer Science, The University of Jordan, 2010.
13. Yacoub Elias Massad, *"Performance Evaluation of Transmission Power Control (TPC) in Mobile Wireless Ad Hoc Networks"*, Department of Computer Science, The University of Jordan, 2010.
14. Affaf Omar Tareef, *"Improving the Robustness of Image Watermarking Against Attack"*, Department of Computer Science, The University of Jordan, 2010.
15. Iman Ibrahim Badran, *"An Adaptive Backoff Algorithm for Mobile Ad-Hoc Networks"*, Department of Computer Science, Jordan University of Science and Technology, 2010. **External Examiner.**
16. Rahmeh Jabai, *"Object Recognition Based on Dominant Points Identification"*, Department of Computer Science, The University of Jordan, 2009.
17. Mustafa Ahmad Bani Khalaf, *"Smart Probabilistic Broadcasting in Mobile Ad-hoc Networks"*, Department of Computer Science, Jordan University of Science and Technology, 2009. **External Examiner.**
18. Ghada Bader, *"Efficient Power Control Routing Protocol in Ad Hoc Network"*, Department of Computer Science, The University of Jordan, 2008.