

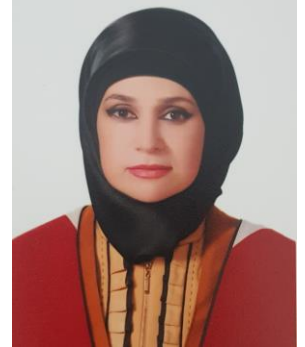
# Curriculum Vitae

Dr. Iman Almomani, BSc, MSc, PhD, Senior MIEEE, WIE

ORCID: 0000-0003-4639-516X

## Personal Details:

Name: Iman M. J. Almomani  
Nationality: Jordanian  
Tel. Number: + 962 (6) 5355000 ext.22575  
Address (work): Computer Science Department,  
King Abdullah II School of Information Technology,  
The University of Jordan  
Amman, Jordan  
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## 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

Cybersecurity and Computer Networks

## Academic Posts

12/2012 –Present Associate Professor in Cybersecurity,  
(On Unpaid Leave Computer Science Department,  
8/2014-8/2021) King Abdullah II School of Information Technology,  
The University of Jordan, Amman, Jordan

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4/2019-Present Security Engineering Lab (SEL) Leader <http://sel.psu.edu.sa/>

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4/2022-2023 Intellectual Property (IP) Office Leader (RIC) <https://innovation.psu.edu.sa/team.php>

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4/2022-2023 Associate Director of the Innovation Center (IC) <https://innovation.psu.edu.sa/>

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9/2017-2023 Associate Director of Research and Initiatives Center (RIC) <https://ric.psu.edu.sa/>

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8/2015 –8/2019 Associate Chair (Female Campus),  
Computer Science Department,  
College of Computer and Information Sciences,  
Prince Sultan University, Riyadh, Kingdom of Saudi Arabia

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8/2014 –2023 Associate Professor in Cybersecurity,  
Computer Science Department,  
College of Computer and Information Sciences,  
Prince Sultan University, Riyadh, Kingdom of Saudi Arabia

09/2007 –12/2012	Assistant Professor in Cybersecurity, 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

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## Professional Membership, Editorial Board and Technical Committees

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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.
  - IEEE Access
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. Proctor for the teams representing Prince Sultan University, Riyadh, KSA participating in IEEEExtreme 14.0 Programming challenge, 25/10/2020.
19. Technical Program Committee, 5th International Symposium on Data Mining Applications (SDMA2018), March 21-22, 2018, Riyadh, KSA.
20. Security Track Chair, 1<sup>st</sup> International Conference of Smart Systems and Emerging Technologies (SMARTTECH 2020), November 3-5, 2020, Riyadh, KSA.
21. Cybersecurity Session Chair, 2<sup>nd</sup> International Conference of Smart Systems and Emerging Technologies (SMARTTECH 2020), May 9-11, 2022, Riyadh, KSA.

## Prizes – Awards

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1. Shortlisted in the Leadership and Management Team of the Year in Times Higher Education Awards Asia 2022. <https://theawardsasia.com/2022/en/page/shortlist>  
<https://theawardsasia.com/2023/en/page/winners>  
[https://evessio.s3.amazonaws.com/customer/3897c7b1-0c71-459a-8ee7-fd8251fd666e/event/92f05bc1-7a24-404b-8014-e01302943165/media/General\\_Content/95c6ec7e-node\\_067ZDK1.PDF](https://evessio.s3.amazonaws.com/customer/3897c7b1-0c71-459a-8ee7-fd8251fd666e/event/92f05bc1-7a24-404b-8014-e01302943165/media/General_Content/95c6ec7e-node_067ZDK1.PDF)

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

## Funded Projects

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1. Testbed-Based Offensive/Defensive Solutions for V2X Communication Systems, Prince Sultan University- Security Engineering Lab, 2022.
2. Security Maturity Assessment Framework for Saudi Organizations, Prince Sultan University- Security Engineering Lab, 2021.
3. Efficient Malware Concealing Mechanisms using Multimedia Steganography, Prince Sultan University- Security Engineering Lab, 2021.
4. ARO: Android Ransomware Ontology, Prince Sultan University- College of Computer and Information Sciences, 2020.
5. RDS: Ransomware Detection System for Android Applications, Prince Sultan University- College of Computer and Information Sciences, 2018.
6. 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.
7. 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.
8. HeliRobot: A prototype was built for flying robot using Lego NXT. The University of Jordan - Deanship of Academic Research (DAR), 2011.
9. 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

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### Cybersecurity

Network Security  
Wireless/Mobile Networks security  
Cryptography  
Intrusion Detection Systems (IDS)  
IoT Security  
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:**

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#### • **International Journals**

1. Metty Paula, Leandros Maglarasb, Mohamed Amine Ferragd, and **Iman Almomani**, "Digitization of healthcare sector: A study on privacy and security concerns", ICT Express, Elsevier, 2023, accepted. <https://doi.org/10.1016/j.icte.2023.02.007>
2. Walid El-Shafai<sup>1</sup>, Fatma Khallaf, El-Sayed M. El-Rabaie, Fathi E. Abd El-Samie and **Iman Almomani**, A Multi-Stage Security Solution for Medical Color Images in Healthcare Applications, Computer Systems Science and Engineering, 2023. Accepted. DOI: [10.32604/csse.2023.037655](https://doi.org/10.32604/csse.2023.037655)
3. **Iman Almomani**, Mohammed Ahmed, Dimitrios Kosmanos, Aala Alkhayer, and Leandros Maglaras, "An Efficient Localization and Avoidance Method of Jammers in Vehicular Ad Hoc Networks", IEEE Access, Vol. 10, 15 December 2022, pp. 131640-131655, <https://doi.org/10.1109/ACCESS.2022.3229623>
4. Walid El-Shafai, **Iman Almomani**, Anees Ara, and Aala AlKhayer, "An Optical-based Encryption and Authentication Algorithm for Color and Grayscale Medical

*Images*", Multimedia Tools and Applications, Vol. 2022, Issue 28, 17 November 2022, pp.1-36. <https://doi.org/10.1007/s11042-022-14093-3>

5. **Iman Almomani**, Walid El-Shafai, Aala AlKhayer, Albandari Alsumayt, Sumayh S. Aljameel, and Khalid Alissa, "Proposed Biometric Security System Based on Deep Learning and Chaos Algorithms", Computers, Materials & Continua, 31 October, Vol. 74, No. 2, 2022, pp.3515-3537. <https://doi.org/10.32604/cmc.2023.033765>
6. **Iman Almomani**, Mohammed Ahmed, and Walid El-Shafai, "Android malware analysis in a nutshell", PloS ONE, Vol. 17, No. 7, 5 July 2022, pp. 1-28. <https://doi.org/10.1371/journal.pone.0270647>
7. Safa Ben Atitallah, Maha Driss, and **Iman Almomani**, "A Novel Detection and Multi-Classification Approach for IoT-Malware Using Random Forest Voting of Fine-Tuning Convolutional Neural Networks", Sensors, Vol. 22, No. 11, 31 May 2022, pp. 4302. <https://doi.org/10.3390/s22114302>
8. Reem Al Saleh, Maha Driss, and **Iman Almomani**, "CBiLSTM: A Hybrid Deep Learning Model for Efficient Reputation Assessment of Cloud Services," IEEE Access, Vol. 10, 30 March 2022, pp. 1-17. <https://doi.org/10.1109/ACCESS.2022.3163246>
9. Maha Driss, **Iman Almomani**, and Jawad Ahmad, "A federated learning framework for cyberattack detection in vehicular sensor networks", Complex & Intelligent Systems, Springer, 24 March 2022, pp. 1-15. <https://doi.org/10.1007/s40747-022-00705-w>
10. **Iman Almomani**, Aala Alkhayer, Walid El-Shafai, "A Crypto-Steganography Approach for Hiding Ransomware within HEVC Streams in Android IoT Devices", Sensors, Vol. 22, No. 6, 16 March 2022, pp. 1-22. <https://doi.org/10.3390/s22062281>
11. **Iman Almomani**, Aala Alkhayer and Walid El-Shafai, "An Automated Vision-Based Deep Learning Model for Efficient Detection of Android Malware Attacks," IEEE Access, vol. 10, January 2022, pp. 2700-2720, doi: <https://doi.org/10.1109/ACCESS.2022.3140341>
12. Rana Almohaini, **Iman Almomani**, and Aala Khayer, " Hybrid-Based Analysis Impact on Ransomware Detection for Android Systems", Applied Sciences, Vol. 11, No.22, 17 November 2021, pp.1-23. <https://doi.org/10.3390/app112210976>
13. **Iman Almomani**, Aala Khayer, and Walid El-Shafai, "Novel Ransomware Hiding Model using HEVC Steganography Approach", Computers, Materials & Continua, Vol. 70 , No. 1, 7 September 2021, pp. 1209–1228. [DOI:10.32604/cmc.2021.018631](https://doi.org/10.32604/cmc.2021.018631)
14. **Iman Almomani**, Mohammed Ahmed and Leandros Maglaras, "Cybersecurity Maturity Assessment Framework for Higher Education Institutions in Saudi Arabia",

15. Ruba Abu Khurma, **Iman Almomani** and Ibrahim Aljarah, “IoT botnet detection using salp swarm and ant lion hybrid optimization model”, Vol. 13, No. 8, Symmetry, 23 July 2021, pp.1-20. <https://doi.org/10.3390/sym13081377>
16. Walid El-Shafai, **Iman Almomani** and Aala Khayer, “Visualized Malware Multi-Classification Framework Using Fine-Tuned CNN-based Transfer Learning Models”, Applied Sciences, Vol. 11, No. 14, 13<sup>th</sup> July 2021. DOI: <https://doi.org/10.3390/app11146446>
17. Raneem Qaddoura, Ala’ M. Al-Zoubi, Hossam Faris, and **Iman Almomani**, “A Multi-layer Classification Approach for Intrusion Detection in IoT Networks based on Deep Learning”, Sensors, Vol. 21, No. 9, 24<sup>th</sup> April 2021, pp.1-12. DOI: <https://doi.org/10.3390/s21092987>
18. **Iman Almomani**, Raneem Qaddoura, Maria Habib, Samah Alsoghyer, Alaa Al Khayer, Ibrahim Aljarah and Hossam Faris, “Android ransomware detection based on a hybrid evolutionary approach in the context of highly imbalanced data”, IEEE Access, Vol. 9, 07 April 2021, pp. 57674-5769. DOI: [10.1109/ACCESS.2021.3071450](https://doi.org/10.1109/ACCESS.2021.3071450)
19. Raneem Qaddoura, Ala’ M. Al-Zoubi, **Iman Almomani** , and Hossam Faris, “A Multi-Stage Classification Approach for IoT Intrusion Detection Based on Clustering with Oversampling”, Applied Sciences, Vol. 11, No. 7, March 2021, pp.1-19. <https://doi.org/10.3390/app11073022>
20. Walid El-Shafai, **Iman Almomani** and Aala Khayer, " Optical Bit-Plane-Based 3D-JST Cryptography Algorithm With Cascaded 2D-FrFT Encryption for Efficient and Secure HEVC Communication", IEEE Access, Vol. 9, February 2021, pp. 35004-35026, doi: [10.1109/ACCESS.2021.306240](https://doi.org/10.1109/ACCESS.2021.306240)
21. **Iman Almomani** and Aala Khayer, "A Comprehensive Analysis of the Android Permissions System", IEEE Access, Vol. 8, 2020, pp. 216671-216688, doi: [10.1109/ACCESS.2020.3041432](https://doi.org/10.1109/ACCESS.2020.3041432)
22. Hossam Faris, Maria Habib, **Iman Almomani**, Mohammed Eshtay, Ibrahim Aljarah, “Optimizing Extreme Learning Machines using Chains of Salps for Efficient Android Ransomware Detection”, Applied Sciences, Vol. 10, No. 11, May 2020, pp.1-25. <https://doi.org/10.3390/app10113706>
23. **Iman Almomani**, Afnan Alromi, “Integrating Software Engineering Processes in the Development of Efficient Intrusion Detection Systems in Wireless Sensor Networks”, Sensors, Vol. 20, No. 5: 1375, March 2020, pp.1-28. <https://doi.org/10.3390/s20051375>

24. **Iman Almomani**, Katrina Sundus, "The Impact of Mobility on the Performance of Authentication Services in Wireless Sensor Networks", *Jordanian Journal of Computers and Information Technology (JJCIT)*, Vol. 06, No. 01, March 2020, pp.77-95. DOI: [10.5455/jcit.71-1563658722](https://doi.org/10.5455/jcit.71-1563658722)
25. Samer Atawneh, Mousa Al-Akhras, **Iman Almomani**, Anas Liswi and Mohammed Alawairdhi, "Collaborative Mobile-Learning Architecture Based on Mobile Agents", *Electronics*, Vol. 9, Issue. 1, January 2020, pp.1-36. DOI: <https://doi.org/10.3390/electronics9010162>
26. Samah Alsoghyer, **Iman Almomani**, "Ransomware Detection System for Android Applications", *Electronics*, Vol. 8, Issue. 8, August 2019, pp.1-36. DOI: <https://doi.org/10.3390/electronics8080868>
27. **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.
28. **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.
29. **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. <https://doi.org/10.1016/j.jiph.2016.09.005>
30. **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, Pages 454-460.
31. **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
32. **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. <https://doi.org/10.1155/2013/768489>.
33. **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. DOI: 10.3837/tiis.2012.04.016



34. **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.
35. **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.
36. **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.
37. **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.
38. 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.
39. **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.
40. **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.
41. 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.
42. 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.
43. **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.

44. **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. Ayyub Alzahem, Wadii Boulila, Maha Driss, Anis Koubaa, and **Iman Almomani**, "Towards Optimizing Malware Detection: An Approach Based on Generative Adversarial Networks and Transformers", 14<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI2022), 28-30 September 2022, Hammamet, Tunisia.
2. Safa Ben Atitallah, Maha Driss, Wadii Boulila, and **Iman Almomani**, "An Effective Detection and Classification Approach for DoS Attacks in Wireless Sensor Networks using Deep Transfer Learning Models and Majority Voting", 14<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI2022), 28-30 September 2022, Hammamet, Tunisia.
3. **Iman Almomani**, Mohammed Ahmed and Walid El-Shafa, "DefOff: Defensive/Offensive System based on Hiding Technologies", International Conference of Smart Systems and Emerging Technologies (SMARTTECH 2020), May 22-24, 2022, Riyadh, KSA.
4. Maha Driss, **Iman Almomani**, Leen Al-Ahmadi, Linah Alhajjam, Raghad Alharbi and Shahad Alanazi, "COVIBOT: A Smart Chatbot for Assistance and E-Awareness during COVID-19 Pandemic", International Conference of Smart Systems and Emerging Technologies (SMARTTECH 2020), May 22-24, 2022, Riyadh, KSA.
5. Maha Driss, **Iman Almomani**, Rahaf Al-Suhaimi, Hanan Al-Harbi, "Automatic Saudi Arabian License Plate Detection and Recognition using Deep Convolutional Neural Networks", The 6<sup>th</sup> International Conference of Reliable Information and Communication Technology (IRICT 2021), 22nd–23rd December 2021. **Best Paper Award** [https://doi.org/10.1007/978-3-030-98741-1\\_1](https://doi.org/10.1007/978-3-030-98741-1_1)
6. Raneem Qaddoura, Ala' M. Al-Zoubi, **Iman Almomani**, Hossam Faris, "Predicting Different Types of Imbalanced Intrusion Activities Based on a Multi-Stage Deep Learning Approach", The 10<sup>th</sup> International Conference on Information Technology (ICIT 2021), July 14-15, 2021, Amman, Jordan. <https://doi.org/10.1109/ICIT52682.2021.9491634>
7. **Iman Almomani**, Aala AlKhayer, Mohammed Ahmed, "An Efficient Machine Learning-based Approach for Android v.11 Ransomware Detection", First International Conference on Artificial Intelligence & Data Analytics (CAIDA2021), April 6-7, 2021, Riyadh, KSA.

8. Aala AlKhayer, **Iman Almomani**, Khaled Elkawlak, "ASAF: *Android Static Analysis Framework*", International Conference of Smart Systems and Emerging Technologies (SMARTTECH 2020), November 3-5, 2020, Riyadh, KSA. DOI: [10.1109/SMART-TECH49988.2020.00053](https://doi.org/10.1109/SMART-TECH49988.2020.00053)
9. Samah Alsoghyer, **Iman Almomani**, "On the Effectiveness of Application Permissions for Android Ransomware Detection", 6<sup>th</sup> International Conference on Data Science and Machine Learning Applications (CDMA 2020), March 4-5, 2020, Riyadh, KSA. DOI: [10.1109/CDMA47397.2020.00022](https://doi.org/10.1109/CDMA47397.2020.00022).
10. Global Cybersecurity Forum (GCF), February 4-5, 2020, Ritz Carlton, Riyadh, Saudi Arabia– **Invited**.
11. International Conference on Computing (ICC 2019), December 10-12, 2019, Riyadh, Saudi Arabia – **Invited**.
12. MENA Information Security Conference 2019, Crowne Plaza - Riyadh RDC Hotel & Convention Center, September 9<sup>th</sup> and 10<sup>th</sup> 2019, Riyadh, Saudi Arabia - **Attendant**.
13. Katrina Sundus, **Iman Almomani**, "Mobility Effect on the Authenticity of Wireless Sensor Networks", IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 9-11 April, 2019, Amman, Jordan. **Best Paper Award**. DOI: [10.1109/JEEIT.2019.8717497](https://doi.org/10.1109/JEEIT.2019.8717497)
14. **Iman Almomani**, Aala Khayer, "Android Applications Scanning: The Guide", IEEE International Conference on Computer and Information Sciences, 3-4 April, 2019, Aljouf, Saudi Arabia.
15. MENA Information Security Conference 2018, Crowne Plaza - Riyadh RDC Hotel & Convention Center, November 6<sup>th</sup> and 7<sup>th</sup> 2018, Riyadh, Saudi Arabia - **Attendant**.
16. Mamdouh Alenezi, **Iman Almomani**, "Empirical Analysis of Static Code Metrics for Predicting Risk Scores in Android Applications'", 5<sup>th</sup> Symposium on Data Mining Applications (SDMA2018), 21-22 March, 2018, Riyadh, KSA.
17. 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**.

18. 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
19. The 2<sup>nd</sup> International Cyber Security Conference (ICSC), Organized by National Cyber Security Center (NCSC), 27<sup>th</sup> -28<sup>th</sup> 2017, Security Forces Officer's Club, Riyadh, Saudi Arabia – **Attendant**.
20. The 3<sup>rd</sup> Saudi International Conference on Information Technology: Cybersecurity, 29-30 March, 2016, KACST Headquarters, Riyadh, KSA – **Attendant**.
21. **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.
22. 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.
23. 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.
24. **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.
25. **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.
26. **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.
27. 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**.

28. **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.
29. **Iman Almomani**, Ola Karajeh and Lamyia Abdulla, "*Pre-Authenticator and Adaptive Window-Based DoS Containing Scheme for Broadcast Authentication in Wireless Sensor Networks*". The 3<sup>rd</sup> 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.
30. **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 3<sup>rd</sup> 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.
31. **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.
32. **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.
33. **Iman Almomani**, Hussein Zedan, "*Secure Distributed Key Management for Wireless Mobile Ad hoc Networks (WMANETs)*", IADIS International Conference Applied Computing 2007, Salamanca, Spain.
34. **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.
35. **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. Raneem Qaddoura, Ibrahim Aljarah, Hossam Faris, **Iman Almomani**, “A Classification Approach Based on Evolutionary Clustering and Its Application for Ransomware Detection”, Evolutionary Data Clustering: Algorithms and Applications, Algorithms for Intelligent Systems, Springer, Singapore, 21 February 2021, [https://doi.org/10.1007/978-981-33-4191-3\\_11](https://doi.org/10.1007/978-981-33-4191-3_11). ISBN:978-981-33-4191-3, 978-981-33-4190-6
2. **Iman Almomani** and Mamdouh Alenezi (June 11th 2019). Android Application Security Scanning Process [Online First], IntechOpen, DOI: 10.5772/intechopen.86661. Available from: <https://www.intechopen.com/online-first/android-application-security-scanning-process>
3. 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**

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### **WIPO Academy**

DL- 101 Intellectual Property Primer (الدورة العامة عن الملكية الفكرية) [27 March 2022]

### **EC-COUNCIL**

CEH- Certified Ethical Hacker [Official Certification, 15<sup>th</sup> August, 2020]

CEH- Certified Ethical Hacker Training [26-29<sup>th</sup> September, 2019]

### **SEED Labs**

Organized by the National Cybersecurity Authority (NCA), National Cybersecurity Academy, [15-19 December, 2019]

### **PaloAlto- Cybersecurity Academy**

PaloAlto Networks Authorized Cybersecurity Academy Instructor- 28<sup>th</sup> January, 2019.

**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 "البحث العلمي"، Poster Session, Research 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.

Security Hackathon, 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

Security Hackathon, scored 20700 points, MENA Information Security Conference 2018, Crowne Plaza - Riyadh RDC Hotel & Convention Center, November 6<sup>th</sup> and 7<sup>th</sup> , 2018.

### **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 Piccinetti, 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 and Audience	
02/03/2005	
Research Methods	22-23/10/2004
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	

## Committees

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- **Prince Sultan University, Institutional Level Committee:**
  - The Digital Universities Mena 2023 Steering Committees
  - The PSU-The Operational Academic Committee (2022-2023)
  - Entrepreneurial University Initiative Committee (2020-2021)
  - Transform PSU to the Digital World (Paperless University) Committee (2020-2021)
  - PSU Women Research Contributions Committee (WRCC) (2020-2021)
  - PSU Ranking 2030 Steering Committee (2020-2021)
  - PSU - THE Impact Ranking (2020-2021)
  - PSU Ranking Improvement Committee (2018-2019)
  - Institutional Review Board (PSU-IRB) (2018-2020)
  - The Institutional Strategic Planning Steering Committee (2016-present)
  - Executive Research Committee (ERC) (2017 – present)
  - Research and Initiative Center Committee (RICC) (2017-present)
  - IT Strategic Committee (2015 – 2017)
  - Campus Quality Committee (2015 – present)
  - PSU Research Road Map 2030 (2019- present)
  
- **Prince Sultan University, Computer Science Department & CCIS (2014 –2022):**
  - CCIS Research and Innovation Committee (2021-2022)
  - Quality Committee
  - Research Committee
  - Master Proposal Reviewing Committee
  - Master Thesis Defense Committee
  - CCIS Faculty Graduate Studies Committee



- Recruitment Committee
  - College Council (2015-2019)
  - ABET Steering Committee
  - CS-IS ABET program Accreditation Actual review 2019
- **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

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Digital Forensics (Master of Science in Cybersecurity)  
 Internet of Things (IoT) Security (Master of Science in Cybersecurity)  
 Fundamentals of Cybersecurity (Master of Science in Cybersecurity)  
 Software Development Processes (Master of Science in Software Engineering)  
 Network Security (Master of Science in Computer Science)  
 Wireless Networks (Master of Science in Computer Science)  
 Computer Networks (Master of Science in Computer Science)  
 Ethical Hacking and Penetration Testing  
 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**

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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**

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1. Afnan AlFaadhel, "*Risk-based Cybersecurity Compliance Assessment System (RC2AS)*", Prince Sultan University, 2022.

2. Hadeel AlFaadhel, *"A Smart Approach to Detecting Host-based Cryptojacking Malware"*, Prince Sultan University, 2022.
3. ALbatoul Almohana, *"Electronic Health Record Security: Threat Models and Blockchain-based Countermeasures"*, Prince Sultan University, 2022.
4. Rana Almohaini, *"The Impact of dynamic Analysis on the Accuracy of Ransomware Detection Systems in Android Systems"*, Prince Sultan University, 2019.
5. Samah Alsoghyer, *"Comparative Analysis of Android Ransomware Detection Techniques"*, College of Computer and Information Sciences, Prince Sultan University, 2018.
6. Shahd Abdulrahman Attar, *"Data Flow Security Analysis for Android Applications"*, College of Computer and Information Sciences, Prince Sultan University, 2017.
7. Afnan Al-Romi, *"An Enhanced Hierarchical Energy Efficient Intrusion Detection System for Malicious Packet Dropping Attacks in Wireless Sensor Networks"*, College of Computer and Information Sciences, Prince Sultan University, 2015.
8. Haneeh F. Al-Anize, *"Performance Comparison of Linear Regression and Artificial Neural Networks in Developing Credit Risk Models"*, College of Computer and Information Sciences, Prince Sultan University, 2014.
9. Ahlam AlSarheed, *"The Impact of Applying Software Engineering in Improving Patient Flow in Outpatient Clinics in the Healthcare of Saudi Arabia"*, College of Computer and Information Sciences, 2014.
10. Bassam Kasasbeh, *"A Mechanism for Detecting and Classifying Denial of Service Attacks in Wireless Sensor Networks using Artificial Neural Networks"*, Department of Computer Science, The University of Jordan, 2014.
11. Amenah Qousini, *"Role-Based Access Control Model for Privacy Preservation in Cloud Computing Environment"*, Department of Computer Science, The University of Jordan, 2013.
12. Hamzeh AL Jawawdeh, *"Energy-Balanced Topology for Wireless Sensor Networks"*, Department of Computer Science, The University of Jordan, 2012.
13. Katrina Sundus, *"Mobility Effect on Broadcast Authentication for Wireless Sensor Networks"*, Department of Computer Science, The University of Jordan, 2011.
14. Eman Albanna, *"Interference-aware Multipath Routing Protocol for Wireless Mobile Ad hoc Networks"*, Department of Computer Science, The University of Jordan, 2011.

15. Maha Khaled, *"Secure Routing Protocol for Wireless Sensor Networks"*, Department of Computer Science, The University of Jordan, 2011.
16. Lamyia Omar, *"Distributed Secure SIP Service over Ad Hoc Networks"*, Department of Computer Science, The University of Jordan, 2010.
17. Ola Karajeh, *"Securing Wireless Sensor Networks against Denial of Service Attacks"*, Department of Computer Science, The University of Jordan, 2010.
18. 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.
19. Ala' Fahad Aburumman, *"Securing SIP over Ad hoc Network"*, Department of Computer Science, The University of Jordan, 2009.
20. Anas Liswi, *"Collaborative Mobile Learning Architecture Based on Mobile Agents"*, Department of Computer Science, The University of Jordan, 2009.
21. Eman Alwadiya, *"Multipath Quality of Service Routing Protocol for Mobile Ad hoc Networks"*, Department of Computer Science, The University of Jordan, 2009.

## PhD Thesis Committees

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1. Ola Majed Malkawi, *"Using Machine Learning to Design and Implement an Intrusion Detection System to Secure Smart Cities Based On Feature Selection"*, Doctor of Philosophy Degree in Computer Science, School of Graduate Studies, The University of Jordan, January 2023, **Internal Examiner**.
2. Malek Al-Zewairi, *"A Novel Multilayer IDS Architecture for Learning Undefined Attacks"*, Degree of Doctor of Philosophy in Computer Science, Princess Sumaya University for Technology, King Abdullah I School of Graduate Studies and Scientific Research, 28 July 2021, **External Examiner**.
3. Randa Aljably, *"An Integrated Deep Neural Network and Intelligent Agent-Based Access Control Anomaly Detection Model in Online Social Networks"*, Doctor of Philosophy degree in the Department of Computer Science at the College of Computer and Information Sciences, King Saud University, 26 February 2020, **External Examiner**.

## Master Thesis Committees

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1. Amal Radwan Saif, *"Smart Sandbox for Malware Detection"*, Degree of Master of Science in Information Systems Security and Digital Criminology, Princess Sumaya University for Technology, King Abdullah I School of Graduate Studies and Scientific Research, October 2021, **External Examiner**.

2. Abdullatif Bn Abdulraouf Alamudy, *"Internet of Things Security Challenges: The ZigBee Case"*, Master of Software Engineering, Prince Sultan University, 2017.
3. Mubarak Saad Alharbi, *"Measuring User Experience with Mobile Applications: Exploratory Study"*, Master of Software Engineering, Prince Sultan University, 2016.
4. Saba Talal Hamdan, *"Software Quality Framework for Continuous Integration"*, Master of Software Engineering, Prince Sultan University, 2015.
5. Norah Naif Al-Romi, *"A Software Quality Model for Evaluating Medical Simulation Tools"*, Master of Software Engineering, Prince Sultan University, 2015.
6. Amani Mohammed Goniemat, *"Analysis and critical evaluation of residue number system converters"*, Department of Computer Engineering, The University of Jordan, 2013.
7. Marwa K. S. Salayma, *"Power Efficiency Model for Zigbee Networks"*, Department of Computer Science, Jordan University of Science and Technology, 2013. **External Examiner.**
8. Khawla Naji Al-Shonikat, *"Energy-aware Partially Joint Routing Protocol for Wireless Sensor Networks"*, Department of Computer Science, The University of Jordan, 2013.
9. 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.
10. Rodwan Shalalfeh, *"Best Utilization of Mirroring Server Resources using Artificial Neural Networks"*, Department of Computer Science, The University of Jordan, 2011.
11. Fatima Abo Alsauwd, *"Dual Recognition of Multi-Script License Plates"*, Department of Computer Science, The University of Jordan, 2010.
12. Maryam Al-sharief, *"Evaluation of Automatic Human Identification Algorithm using facial Features"*, Department of Computer Science, The University of Jordan, 2010.
13. Rasha Beidas, *"Skin Cancer Recognition by using Neuro-Fuzzy System"*, Department of Computer Science, The University of Jordan, 2010.
14. 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.
15. Affaf Omar Tareef, *"Improving the Robustness of Image Watermarking Against Attack"*, Department of Computer Science, The University of Jordan, 2010.

16. 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.**
17. Rahmeh Jabai, *"Object Recognition Based on Dominant Points Identification"*, Department of Computer Science, The University of Jordan, 2009.
18. 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.**
19. Ghada Bader, *"Efficient Power Control Routing Protocol in Ad Hoc Network"*, Department of Computer Science, The University of Jordan, 2008.