

Khair Eddin M. Sabri

Professor

Cybersecurity Department
King Hussein School of Computing Sciences
Princess Sumaya University for Technology
Amman, Jordan



Education

- **McMaster University** Hamilton, ON
PhD in Software Engineering *September 2004 – April 2010*
 - Dissertation: “Algebraic Framework for the Verification of Confidentiality Properties”
 - Supervisor: Dr. Ridha Khedri
- **University of Jordan** Amman, Jordan
MSc. in Computer Science *September 2001 – December 2003*
 - Thesis: “Reverse Software Engineering and Reengineering to Detect Plagiarism in Java Programs”
 - Supervisor: Dr. Jubair Al-Ja’afar
- **Applied Science University** Amman, Jordan
Bsc. in Computer Science *September 1997 – June 2001*

Academic Positions

- **Princess Sumaya University for Technology** Amman, Jordan
Professor *September 2024 – Present*
- **University of Jordan** Amman, Jordan
Professor *April 2019 – Present*
- **University of Jordan** Amman, Jordan
Associate Professor *April 2015 – April 2019*
- **University of Jordan** Amman, Jordan
Assistant Professor *August 2010 – April 2015*
- **McMaster University** Hamilton, ON
Teaching Assistant *September 2005 – April 2010*
 - Courses taught: Software Requirement and Security Consideration, Software Testing, Software Design (graduate course)
- **University of Jordan** Amman, Jordan
Teaching Assistant *March 2002 – August 2004*
 - Courses taught: Computer Skills, Discrete Mathematics

Teaching

I taught the following courses at the University of Jordan:

- Undergraduate Courses:
 - Principles of Cybersecurity (1st year)
 - Discrete Mathematics (1st year)
 - C++ Programming Language (1st year)
 - Advanced Programming (2nd year)
 - Java Programming Language (2nd year)
 - Theory of Computation (2nd year)
 - Digital Design (2nd year)
 - Computer Architecture and Assembly Language (2nd year)
 - Security of Web Applications (3rd year)
 - Computer Security (4th year)
 - Information Security and Privacy (4th year)
 - Software Engineering Security (4th year)
- MSc Courses:
 - Web Applications Security
 - Network Security
 - Information Security
 - Computability and Complexity
- PhD Courses:
 - Network System Security
 - Software Engineering

Administrative Positions

- **University of Jordan** Amman, Jordan
Vice Dean for Automated Exams and E-Learning Affairs September 2023 – September 2024
- **University of Jordan** Amman, Jordan
Vice Dean for Academic and Administrative Affairs September 2021 – October 2022
- **University of Jordan** Amman, Jordan
Director of Information Technology Center September 2019 – September 2020
- **University of Jordan** Amman, Jordan
Dean Assistant for Computer Labs September 2018 – September 2019

Research Interest

I am pursuing research in theoretical and practical areas of Information Security among which:

- Malware Analysis.
- Web Application Security.

- Design and analysis of security protocols.
- Intruder detection and machine learning.
- Formal specification of access control policies.
- Blockchain and smart contracts.
- The analysis of cryptographic-key distribution schemes.
- Detecting information leakage via covert channels.

Research Experience

- Visiting Professor, Department of Systems and Computer Engineering, Faculty of Engineering and Design, Carleton University, Ottawa, ON, Canada, June 2018 - August 2018.
- Visiting Professor, Department of Computing and Software, McMaster University, Hamilton, ON, Canada, June 2011 - August 2011.

Publications

1. Walaa Alomari, Khair Eddin Sabri, Nadim Obeid. A Digital Evidences Preservation Framework for a Logic Based Smart Contract, In *Informatica*, 47(8): 141–152, 2023.
2. Mohammad Qbea'h, Saed Alrabae, Mohammad Alshraideh, Khair Eddin Sabri. Diverse Approaches Have Been Presented To Mitigate SQL Injection Attack, But It Is Still Alive: A Review, In *International Conference on Computer and Applications (ICCA)*, 2022.
3. Ruba Abu Khurma, Ibrahim Aljarah, Pedro A. Castillo and Khair Eddin Sabri. An Enhanced Opposition-Based Evolutionary Feature Selection Approach, In *EvoApplications Conference*, 2022.
4. Hadeel Alazzam, Ahmad Sharieh and Khair Eddin Sabri. A lightweight intelligent network intrusion detection system using OCSVM and Pigeon inspired optimizer, *Applied Intelligence*, 2021.
5. Rawan Shahin and Khair Eddin Sabri. A Secure IoT Framework Based on Blockchain and Machine Learning, *International Journal of Computing and Digital System*, 2021.
6. Hasan Dibas and Khair Eddin Sabri. A comprehensive performance empirical study of the symmetric algorithms: AES, 3DES, Blowfish and Twofish, In *International Conference on Information Technology (ICIT), IEEE*, 344-349, 2021.
7. Arar Al Tawil and Khair Eddin Sabri. A feature selection algorithm for intrusion detection system based on Moth Flame Optimization, In *International Conference on Information Technology (ICIT), IEEE*, 377-381, 2021.
8. Ruba Abu Khurma, Khair Eddin Sabri, Pedro A Castillo and Ibrahim Aljarah. Salp Swarm Optimization Search Based Feature Selection for Enhanced Phishing Websites Detection, In *EvoApplications Conference*, 146–161, 2021.
9. Wesam Almobaideen, Hebatullah Jarboua and Khair Eddin Sabri. Searchable Encryption Architectures: Survey of the Literature and Proposing a Unified Architecture, *International Journal of Information Privacy, Security and Integrity*, 4(4): 237–260, 2020.

10. Maha Saadeh, Azzam Sleit, Khair Eddin Sabri and Wesam Almobaideen. Object Authentication in the Context of the Internet of Things: A Survey, *Journal of Cyber Security and Mobility*, 9(3): 385–448, 2020.
11. Hadeel Alazzam, Ahmad Sharieh and Khair Eddin Sabri. A feature selection algorithm for intrusion detection system based on Pigeon Inspired Optimizer, *Expert Systems with Applications*, Volume 148, 14 pages, 2020.
12. Sherin Hijazi, Nadim Obeid and Khair Eddin Sabri. On the Logical Foundation of a Personalized Medical Prescription System, *IEEE Access*, Volume 8, 6471-6483, 2020.
13. Huda Saadeh, Wesam Almobaideen, Khair Eddin Sabri and Maha Saadeh. Hybrid SDN-ICN Architecture Design for the Internet of Things, In *Sixth International Conference on Software Defined Systems (SDS)*, 96-101, 2019.
14. Noor Al-Anbaki, Nadim Obeid and Khair Eddin Sabri. A Defeasible Logic-based Framework for Contextualizing Deployed Applications, *International Journal of Advanced Computer Science and Applications*, 9(10): 176-186, 2019.
15. Yousef Khdirat and Khair Eddin Sabri. Generating Test Cases from Role-Based Access Control Policies using Cause-Effect Graph, *Journal of Software*, 13(9): 497-505, 2018.
16. Khair Eddin Sabri. An Algebraic Model to Analyze Role-Based Access Control Policies, *Modern Applied Science*, 12(10): 50-57, 2018.
17. Maha Saadeh, Azzam Sleit, Khair Eddin Sabri and Wesam Almobaideen. Hierarchical Architecture and Protocol for Mobile Object Authentication in the Context of IoT Smart Cities, *Journal of Network and Computer Applications*, 121: 1-19, 2018.
18. Huda Saadeh, Wesam Almobaideen and Khair Eddin Sabri. PPUSTMAN: Privacy-Aware PUBLISH/SUBSCRIBE IoT MVC Architecture Using Information Centric Networking, *Modern Applied Science*, 12(5): 128-152, 2018.
19. Maha Saadeh, Azzam Sleit, Khair Eddin Sabri and Wesam Almobaideen. Lightweight Identity Based Signature for Mobile Object Authentication in the Internet of Things, *Journal of Theoretical & Applied Information Technology*, 96(3): 788-798, 2017.
20. Huda Saadeh, Wesam Almobaideen and Khair Eddin Sabri. Internet of Things: A Review to Support IoT Architecture's Design In *Proceedings of the 2nd International Conference on the Applications of Information, Technology in Developing Renewable Energy Processes & Systems (IT-DREPS)*, IEEE, 2017.
21. Nafi' Alswae'r and Khair Eddin Sabri. Formal Specification of Constraints on Role-Based Access Control Policies, In *Proceedings of the New Trends in Information Technology (NTIT)*, 2017.
22. Mohammed Arabiat, Nael Al-Basheer, Khair Eddin Sabri and Hazem Hiary. Homomorphic Encryption in E-Voting Systems: The University of Jordan Case Study, In *Proceedings of the New Trends in Information Technology (NTIT)*, 2017.
23. Mohammad Qbea'h, Mohammad Alshraideh and Khair Eddin Sabri. Detecting and Preventing SQL Injection Attacks: A Formal Approach, In *Proceedings of the Cybersecurity and Cyberforensics Conference (CCC)*, pages 123–129, IEEE, 2016.

24. Hazem Hiary, Khair Eddin Sabri, Mohammed S. Mohammed and Ahlam Al-Dhamari. A Hybrid Steganography System based on LSB Matching and Replacement. *International Journal of Advanced Computer Science and Applications(IJACSA)*, 7(9): 374-380, 2016.
25. Khair Eddin Sabri and Hazem Hiary. Algebraic model for handling access control policies. In *Proceedings of the 7th International Conference on Ambient Systems, Networks and Technologies (ANT 2016)*, volume 83 of *Procedia Computer Science*, pages 653–657. Elsevier, 2016.
26. Khair Eddin Sabri and Nadim Obeid. A temporal defeasible logic for handling access control policies. *Applied Intelligence*, 44(1): 30-42, 2016.
27. Jason Jaskolka, Ridha Khedri and Khair Eddin Sabri. Investigative Support for Information Confidentiality. *Journal of Ambient Intelligence and Humanized Computing*, 6(4): 425-451, 2015.
28. Khair Eddin Sabri. Algebraic specification and analysis of health records. *International Journal of Advanced Science and Technology*, 76 : 9-20, 2015.
29. Khair Eddin Sabri. Automated verification of role-based access control polices constraints using Prover9. *International Journal of Security, Privacy and Trust Management*, 4(1): 1-10, 2015.
30. Khair Eddin Sabri. Algebraic analysis of Akl and Taylor key scheme. *International Review on Computers and Software*, 9(11):2033-2042, 2014.
31. Khair Eddin Sabri. Algebraic analysis of object-based key assignment schemes. *Journal of Software*, 9(8):2033-2042, 2014.
32. Jason Jaskolka, Ridha Khedri, and Khair Eddin Sabri. Investigative support for information confidentiality part II: Applications in crypanalysis and digital forensics. In *Proceedings of the 9th International Conference on Future Networks and Communications*, volume 43 of *Procedia Computer Science*, pages 266–275. Elsevier, August 2014.
33. Jason Jaskolka, Ridha Khedri, and Khair Eddin Sabri. Investigative support for information confidentiality part I: Detecting confidentiality information leakage via protocol-based covert channels. In *Proceedings of the 9th International Conference on Future Networks and Communications*, volume 43 of *Procedia Computer Science*, pages 276–285. Elsevier, August 2014.
34. Ridha Khedri, Fei Chiang and Khair Eddin Sabri. An algebraic approach towards data cleaning. In *4th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2013)*, volume 21 of *Procedia Computer Science*, pages 50–59. Elsevier, 2013.
35. Khair Eddin Sabri and Ridha Khedri. A generic algebraic model for the analysis of cryptographic-key assignment schemes. In *Proceedings of the 5th International Symposium on Foundations and Practice of Security*, volume 7743 of *Lecture Notes in Computer Science*, pages 62–77. Springer-Verlag Berlin Heidelberg, October 2012.
36. Khair Eddin Sabri and Ridha Khedri. Algebraic framework for the specification and analysis of cryptographic-key distribution. *Fundamenta Informaticae*, 112(4):305-335, 2011.
37. Jason Jaskolka, Ridha Khedri and Khair Eddin Sabri. A formal test for detecting information leakage via covert channels. In *Proceedings of the 7th Cyber Security and Information Intelligence Research Workshop, CSIIRW 2011*, ACM, 2011.

38. Jason Jaskolka, Ridha Khedri, and Khair Eddin Sabri. Information leakage via protocol-based covert channels: Detection, automation, and applications. Technical Report CAS-11-05-RK, department of Computing and Software, Faculty of Engineering, McMaster University, Hamilton, ON, Canada, January 2011.
<http://www.cas.mcmaster.ca/cas/0template1.php?601>.
39. Khair Eddin Sabri and Ridha Khedri. Algebraic framework for the analysis of information security. In *Proceedings of the 6th International Computing Conference in Arabic (ICCA)*, 2010. (in Arabic).
40. Khair Eddin Sabri, Ridha Khedri, and Jason Jaskolka. Verification of information flow in agent-based systems. In G. Babin, P. Kropf, and M. Weiss, editors, *Proceedings of the 4th MCETECH Conference on e-Technologies*, volume 26 of *Lecture Notes in Business Information Processing*, pages 252–266. Springer-Verlag Berlin Heidelberg, May 2009. (**Nominated for Best Paper Award**).
41. Khair Eddin Sabri, Ridha Khedri, and Jason Jaskolka. Specification of agent explicit knowledge in cryptographic protocols. *International Journal of Computer Science*, 4(2):122–129, 2009.
42. Khair Eddin Sabri, Ridha Khedri, and Jason Jaskolka. *Advanced Technologies*, Chapter 13: Algebraic Model for Agent Explicit Knowledge in Multi-agent Systems, pages 225–250. IN-TECH, October 2009.
43. Khair Eddin Sabri, Ridha Khedri, and Jason Jaskolka. Automated verification of information flow in agent-based systems. Technical Report CAS-09-01-RK, department of Computing and Software, Faculty of Engineering, McMaster University, Hamilton, ON, Canada, January 2009. <http://www.cas.mcmaster.ca/cas/0template1.php?601>.
44. Khair Eddin Sabri, Ridha Khedri, and Jason Jaskolka. Specification of agent explicit knowledge in cryptographic protocols. In *Proceedings of the International Conference on Computer, Electrical, and Systems Science, and Engineering (CESSE 2008)*, volume 35. World Academy of Science, Engineering and Technology, October 2008. (This paper is also published as a journal paper).
45. Ahmad Sharieh and Khair Eddin Sabri. Parallel graph colouring based on saturated degree ordering. *ABHATH AL-YARMOUK: "Basic Science & Engineering"*, 17(2):489–503, 2008.
46. Khair Eddin Sabri and Ridha Khedri. Agent explicit knowledge: Survey of the literature and elements of a suitable representation. In *Proceedings of the 2nd Workshop on Practice and Theory of IT Security (PTITS 2008)*, pages 4–9, 2008.
47. Khair Eddin Sabri and Ridha Khedri. A mathematical framework to capture agent explicit knowledge in cryptographic protocols. Technical Report CAS-07-04-RK, department of Computing and Software, Faculty of Engineering, McMaster University, October 2007.
<http://www.cas.mcmaster.ca/cas/0template1.php?601>.
48. Khair Eddin Sabri and Ridha Khedri. Multi-view framework for the analysis of cryptographic protocols. Technical Report CAS-07-06-RK, department of Computing and Software, Faculty of Engineering, McMaster University, Hamilton, ON, Canada, November 2007.
49. Khair Eddin Sabri and Ridha Khedri. A multi-view approach for the analysis of cryptographic protocols. In *Proceedings of the Workshop on Practice and Theory of IT Security (PTITS 2006)*, pages 21–27, 2006.

50. Hussein Al-Omari and Khair Eddin Sabri. New graph coloring algorithms. *American Journal of Mathematics and Statistics*, 2(4), 2006.
51. Khair Eddin Sabri and Jubair Al-Ja'afar. The JK system to detect plagiarism. *Journal of Computer Science & Technology*, 6(2):66–72, October 2006.
52. Jubair Al-Ja'afar and Khair Eddin Sabri. Automark++: A case tool to automatically mark student java programs. *The International Arab Journal of Information Technology*, 2(1):87–96, January 2005.
53. Jubair Al-Ja'afar and Khair Eddin Sabri. Chidamber-Kemerer (CK) and Lorenze-Kidd (LK) metrics to assess java programs. In *International Workshop on Software System (IWSS'04)*, 2004.
54. Jubair Al-Ja'afar and Khair Eddin Sabri. Metrics for Object Oriented Design (MOOD) to assess java programs. In *International Arab Conference on Information Technology (ACIT'04)*, 2004.
55. Ahmed Al-Jaber and Khair Eddin Sabri. Data hiding in a binary image. In *Proceedings of the Mediterranean Conference on Modeling and Simulation MCMS'03*, volume 4 of *Lectures on Modeling and Simulation*, pages 10–17, June 2003.
56. Ahmed Al-Jaber and Khair Eddin Sabri. Information hiding without changing the cover image. In *International Conference on Information Technology and Natural Science (ICITNS 2003)*, May 2003.
57. Ahmed Al-Jaber and Khair Eddin Sabri. A secure and invisible data hiding in a gray-scale image. In *Proceedings of the 7th WSEAS International Conference on Computers*, pages 167–171, 2003.

PhD Theses Supervised

- Mai Mohammed Abu Jazoh (co-supervisor with Dr. Iman Almomani), Malware for Network-based Systems: Development Strategies, Impacts, Analyses and Countermeasures.
- Hebah Abu Kaf (co-supervisor with Dr. Nadim Obeid), A Secure Logic-based Collaborative Multi-Agents System.
- Duha Qutishat, (co-supervisor with Dr. Rizik Al-Sayyed), Applying the Zero-Shot Learning to Generate and Classify Malicious Unseen Attacks.
- Walaa Alomary (co-supervisor with Dr. Nadim Obeid) (Completed in 2022), Blockchain Based Secure IoT Forensics Evidence Preservation System.
- Sheren Hijazi (co-supervisor with Dr. Nadim Obeid) (Completed in 2020), On Developing an Appropriate Medical Prescription Framework Based on Description Logic Based Ontology and Non Classical Logic.
- Hadeel Azzam (Co-supervisor with Dr. Ahmed Sharieh) (Completed in 2020), An Automatic Lightweight Intelligent Intrusion Detection System for Cyber Security
- Areej Shorman (co-supervisor with Dr. Mohammad Abushariah) (Completed in 2020), A Mathematical Model for Vulnerabilities Detection in Ethereum Smart Contracts.
- Noora Anbaki (co-supervisor with Dr. Nadim Obeid) (Completed in 2019), A contextually adapted temporal defeasible logic for managing access control policies in ubiquitous environments

- Huda Saadeh (co-supervisor with Dr. Wesam Almobaideen) (Completed in 2018), IoT adaptive multi-layer privacy in information centric network.
- Maha Saadeh (co-supervisor with Dr. Azzam Sleit) (Completed in 2018), An authentication technique of mobile Objects for the internet of things.

M.Sc. Theses Supervised

- Yazan Hamoudeh, Beyond Passwords: Leveraging User Behavior and Behavioral Biometrics for Robust Authentication.
- Rawan Azzam, Zero Trust-Based Access Control for Bring Your Own Device (BYOD) in the Education Sector.
- Mahmoud Obiedat, Text classification to identify child sextortion material in Arabic content using Deep Learning
- Manal Ahmad Mohammad Abu Ghazaleh (co-supervisor with Dr. Mohammad Belal Al Zoubi), Android spyware detection using machine learning techniques
- Ahmad Al-Tarawneh (co-supervisor with Dr. Mohammad Abushariah), Detection of Arabic Emails Phishing using Natural Language Processing for Cyber Security.
- Shatha Abu Abed (Completed in 2024), Detecting cross-site scripting attacks through machine learning along with genetic algorithm.
- Mahmoud Ayyad (Completed in 2022), Biometric technique to secure credit card information on Android devices.
- Heba Meslah (co-supervisor with Dr. Nadim Obeid)(Completed in 2022), Ontology-based Data Integration Systems in the University of Jordan.
- Muna Fannoon (co-supervisor with Dr. Nadim Obeid) (Completed in 2022), Using Artificial Intelligence to Diagnose ADHD in Children and Adolescents.
- Saja Mryan (Completed in 2022), An Algebraic Approach to Improve Data Security in Cloud Computing Through Fragmentation.
- Rana Abu Samhan (Completed in 2021), A Comprehensive Framework for Detecting DDoS Attacks in Cloud Computing Environment.
- Yousef Arabiat (Co-Supervisor with Dr. Heba Saadeh) (Completed in 2021), Time-Series Forecasting Model using Machine Learning.
- Rawan Shahan (Completed in 2021), Blockchain-Based Security Model for Internet-of-Things through Detection of Malicious Devices.
- Hamzeh Asefan (Co-Supervisor with Dr. Hamad Sawalqah) (Completed in 2021), A Data Mining Approach for Predicting and Measuring the Performance of Undergraduate Students During the COVID-19 Pandemic: the Case Study of The University of Jordan.
- Hasan Aref (Completed in 2021), A comprehensive empirical study of the performance impact of ORMs on .NET apps.
- Ahmed Saleh (Completed in 2020), Malware Detection Based on Dynamic Features.
- Tariq Al-Khader (Completed in 2020), Detecting Compromised IOT Devices Using Machine Learning.

- Raya Alyazjeen (Completed in 2020), Verification of access control policies using model checking.
- Majd Hasan (Completed in 2019), Providing Confidentiality, Mobility, and Anonymity in Healthcare Application.
- Hebatullah Jarboua (co-supervisor with Dr. Wesam Almobaideen) (Completed in 2019), Unified Architecture for Cloud Searchable Encryption.
- Suhad Abureesh (co-supervisor with Dr. Mohammad Alshraideh)(Completed in 2018), An intrusion detection system based on a dendrite morphological neural networks.
- Nafea Alswaier (Completed in 2017), Formal modeling of role hierarchy and delegation constraints in role based access control policies.
- Mohammad Mesbah Qbea'h (co-supervisor with Dr. Mohammad Alshraideh)(Completed in 2016), Detecting SQL injection attacks: a formal approach.
- Yousef Khdairat (Completed in 2016), Role-based access control policy testing based on cause-effect graph.
- Mahmoud Shtayyat (Completed in 2016), Trust and risk based access control model for cloud Computing environment
- Nafea Kharabsheh (co-supervisor with Dr. Saher Manaseer)(Completed in 2015), Clustering-based broadcasting in ad hoc networks.
- Eman Beno (co-supervisor with Dr. Saher Manaseer)(Completed in 2015), The effect of network transmission history on backoff algorithms for mobile ad hoc networks.

Professional Activities

- Program Committee: International Conference on Digital Forensics & Cyber Crime (EAI ICDF2C 2024)
- Track Chair: Systems Security and Privacy track for the 15th International Conference on Ambient Systems, Networks and Technologies (ANT 2024)
- Track Chair: Systems Security and Privacy track for the 14th International Conference on Ambient Systems, Networks and Technologies (ANT 2023)
- Program Committee: The 12th International Conference on Ambient Systems, Networks and Technologies (ANT 2021)
- Program Committee: The 11th International Conference on Ambient Systems, Networks and Technologies (ANT 2020)
- Program Committee: The First International Conference of Smart Systems and Emerging Technologies (SMARTTECH 2020)
- Program Committee: The Eleventh International Conference on Emerging Network Intelligence (EMERGING 2019).
- Program Committee: The Ninth International Conference on Ambient Computing, Applications, Services and Technologies (AMBIENT 2019)
- Program Committee: The 10th International Conference on Ambient Systems, Networks and Technologies (ANT 2019)

- Program Committee: The 9th International Conference on Ambient Systems, Networks and Technologies (ANT 2018)
- Program Committee: The 8th International Conference On Computer Science and Information Technology (CSIT 2018)
- Program Committee: The Eighth International Conference on Ambient Computing, Applications, Services and Technologies (AMBIENT 2018)
- Program Committee: The Tenth International Conference on Emerging Network Intelligence (EMERGING 2018)
- Evaluating Grant Proposals (2018): Umm Al-Qura University, Saudi Arabia
- Program Committee: New Trends in Information Technology (NTIT 2017).
- Program Committee: The 8th International Conference on Ambient Systems, Networks and Technologies (ANT 2017).
- Program Committee: The Seventh International Conference on Ambient Computing, Applications, Services and Technologies (AMBIENT 2017)
- Program Committee: The Ninth International Conference on Emerging Network Intelligence (EMERGING 2017)
- Reviewer: 11th International Conference on Global Security, Safety & Sustainability (ICGS3 2017)
- Technical Chair: Cybersecurity and Cyberforensics Conference (CCC 2016)
- Program Committee: The 7th International Conference on Ambient Systems, Networks and Technologies (ANT 2016)
- Reviewer: Iranica Journal
- Program Committee: The 7th International Conference on Computer Science and Information Technology (CSIT 2016)
- Program Committee: The Eighth International Conference on Emerging Network Intelligence (EMERGING 2016)
- Program Committee: The Sixth International Conference on Ambient Computing, Applications, Services and Technologies (AMBIENT 2016)
- Program Committee: The Eighth International Conference on Emerging Network Intelligence (EMERGING 2016)
- Program Committee: The Seventh International Conference on Emerging Network Intelligence (EMERGING 2015)
- Evaluating Grant Proposals (2016): The University of Jordan, Jordan
- Evaluating Grant Proposals (2016): Umm Al-Qura University, Saudi Arabia
- Program Committee: The Fifth International Conference on Ambient Computing, Applications, Services and Technologies (AMBIENT 2015)
- Reviewer: The 19th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2015

- Program Committee: The 5th International Conference on Ambient Systems, Networks and Technologies (ANT 2014)
- Program Committee: The Sixth International Conference on Emerging Network Intelligence (EMERGING 2014)
- Program Committee: The Fourth International Conference on Ambient Computing, Applications, Services and Technologies (AMBIENT 2014)
- Program Committee: International Conference on Communication and Network (ICCN 2014).
- Reviewer: the 12th Workshop on Discrete Event Systems (WODES 2014)
- Track Chair: Systems Security and Privacy track for the 4th International Conference on Ambient Systems, Networks and Technologies (ANT 2013)
- Program Committee: The Third International Conference on Ambient Computing, Applications, Services and Technologies (AMBIENT 2013)
- Program Committee: The 5th International Conference on Computer Science and Information Technology (CSIT 2013)
- Reviewer: International Journal of Software Engineering and Knowledge Engineering
- Program Committee: International Workshop on Software Engineering for sAFety-critical Systems and Medical dEVICES (SEASAME 2013)
- Program Committee: The 3rd International Conference on Ambient Systems, Networks and Technologies (ANT 2012)
- Program Committee: The International Arab Conference of e-Technology (IACe-T 2012)
- Reviewer: The 7th International Computing Conference in Arabic (ICCA 2011)
- Reviewer: The 6th International Computing Conference in Arabic (ICCA 2010)
- Reviewer: The 7th International Conference on Software Engineering and Formal Methods (SEFM 2009)
- Reviewer: The 9th Workshop on Discrete Event Systems (WODES 2008)
- Reviewer: The 2nd Workshop on Practice and Theory of IT Security (PTITS 2008)
- Reviewer: The 1st Workshop on Practice and Theory of IT Security (PTITS 2006)
- Reviewer: The 8th Workshop on Discrete Event Systems (WODES 2006)

Academic Membership at The University of Jordan

- Member of the Digital Committee
- Member of the Quality Assurance and ABET Committee
- Member of the ISO Committee
- Member of the Strategic Planning Committee
- Member of the Curriculum Planning Committee

- Member of the Quality Assurance of the Automated Exam Committee
- Member of the e-Learning Committee
- Member of the Student Training Committee
- Member of the Student Advisory Committee

Industrial Certificates

- Cisco Certified Network Associate (CCNA) 2020

Languages

- Arabic: Excellent
- English: Excellent