CURRICLUM VITAE

Personal Information

NAME: Zeyad Hashem Desuqi Mohammad

ADDRESS:

Al-Karameh- South Shuna, Jordan

PHONE: +962-780639955/+962-796910840

E-mail: dasouqi@yahoo.com

Education

2005– 2010   Ph.D in information cryptography and network security (Honor), Institute of Information Management, **National Chiao Tung University, Hsinchu-Taiwan**.

Evaluation: Excellent.

Dissertation Title: Cryptanalysis and Enhancement of Authenticated Key Agreement Protocols and Their Security Models.

Qualification Exams:
1- Computer Algorithms
2- Information Network Security
3- Advance Data Base Management (Data Mining)
4- Operation Research

2002–2004   Master in Computer Science, **Amman Arab University for Graduate Studies, Amman - Jordan**.

Evaluation :   Excellent.

1992-1996   Bachelor of Science in Computer Science, **Mu'tha University, Karak – Jordan**

Evaluation : Good.

Employment

Academic Positions

- Assistant Professor(A), Department of Management Information System, Alzaytoonah University of Jordan, Amman, Jordan.
  October, September 2019.
- Assistant Professor(A), Department of Computer Science\Computer Network, Alzaytoonah University of Jordan, Amman, Jordan.
  September, 2013 – 2019.

- Assistant Professor, Department of Management Information System, Alzaytoonah

University of Jordan, Amman, Jordan.
October, 2010 – September 2013.

- Lecturer of computer science, Department of Information Technology, AL Balqa`
  Applied University/Salt College, Salt – Jordan.
  Sep. 2004 – Sep. 2006.

- Instructor, Department of Information Technology, AL Balqa` Applied University/Salt
  College, Salt – Jordan.
  Feb 2001-Sep 2004.

- Teacher/Lecturer of computer science, Department of Computer Science, Ideal
  Institute for Technical Studies, Dammam-K.S.A.
  June 1998- June 2000.

- Instructor of computer science, Dar Allughat Center, Salt – Jordan.
  June 1997- May 1998.

- Teacher of computer science, Ministry of Education, South Shuna-Jordan.
  Sep. 1996 – Jun. 1997.

Teaching Experience

- Graduate Courses
    Wireless Networks.

- Undergraduate Courses
  Information security, Network security, Network monitoring and documentation,
  Network management, Computer wireless network, Computer network, Data structure,
  Operating system, Computer algorithm, Java programing I & II, Network design and
  simulation I & II, VoIP, Computer skills, Visual Basic, C sharp, C++, Visual C++, Data base,
  PC components, ECDL/ICDL, Pascal, MS Office, MS-DOS, Principle of programming, Office
  automation, System analysis and design, Computer application in accounting, Computer
  application in marketing, Computer application in administration, Computer application
  in finance, Information management, and Data business communication.

Research Interests

- Key Agreement protocols and Their Security models
- Cryptanalysis
- Internet of Things-Security
- Design and Analysis Algorithms
- IP Routing Protocols

Supervision of Graduate Research

- Advisor of Thaer Mohammad Taha Abu Qattam – Master of Computer Science – Alzaytoonah University of Jordan. 2017-2019. Thesis: An Enhanced Lightweight Authenticated Elliptic Curve Key Exchange Protocol for Securing Internet of Things.
- Co Advisor of Ali Al-thaher – Master of Computer Science – Alzaytoonah University of Jordan. 2017-2019. Thesis: AN EFFICIENT AND SECUER KEY EXCHANGE PROTOCOL BASED ON ELLIPTIC CURVE AND SECURITY MODELS.

Supervision of Undergraduate Project

- Smart Home Using Solar Panel Power, Smart Indoor Farming, Road Traffic Counting, Security Alarm Home System, Wedding Planner Based on Mobile Application, Tourism E-Guide Based on Android Application, Smart Home, Online shopping System, Car Security System, Integration Hospitals System, Implementation of Diffie-Hellman Key Exchange with AES By Using GNS3 for Securing Network, Smart Farm System, Enterprise network monitoring, Network management, Mobile application for exam schedule, Hotel automation, Pharmacy online, Automation of restaurant group, Tourism E-guide based on android application, Improvement of performance using wireless technology, Improvement of vehicle license and insurance system in Jordan and Black hole attack in wireless Ad hoc network.

Membership of Committees

- Quality Assurance Committee., 9/2016-6/2019.
- Course Plans Committee. 9/2016-6/2019.
- Exams and Evaluation Committee. 9/2015-6/2016.

Publications

- Journal Papers:
1. Z. Mohammad, "Cryptanalysis of an efficient protocol for authenticated key agreement," ICIC Express Letters, vol. 13, no. 4, pp. 293–301, 2019. Scopus
2. A. Abusukhon, M. N. Anwar, Z. Mohammad, and B. Alghannam, "A hybrid network security algorithm based on diffie hellman and text-to-image encryption algorithm," Journal of Discrete Mathematical Sciences and Cryptography, pp. 1–17, 2019. ESCI, Scopus
3. Zeyad Mohammad, Ahmad Abusukhon, Adnan A. Hnaif, and Issa S. Al-Otoum, "Performance Analysis of Route Redistribution among Diverse Dynamic Routing Protocols based on OPNET Simulation",(IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 8, No. 3, pp. 324-332, March 2017, ESCI, Scopus.
4. Zeyad Mohammad, Ahmad Abusukhon, and Marzooq A. Al-Maitah, "A COMPARATIVE PERFORMANCE ANALYSIS OF ROUTE REDISTRIBUTION AMONG THREE DIFFERENT ROUTING PROTOCOLS BASED ON OPNET SIMULATION", International Journal of Computer Networks & Communications (IJCNC), Vol.9, No.2, pp. 39-57, March 2017, ERA, Scopus.

5. Zeyad Mohammad, Chien-Lung Hsu ,Yaw-Chung Chen and Chi-Chun Lo, Cryptanalysis of a secure and efficient three-pass authenticated key agreement protocol based on elliptic curves, Journal of Internet Technology, Vol. 14 No. 2, March 2013, Scopus & SCI.
6. Zeyad Mohammad, Chien-Lung Hsu ,Yaw-Chung Chen and Chi-Chun Lo, An efficient and secure three-pass authenticated key agreement elliptic curve based protocol, International Journal of Innovative Computing, Information and Control, Vol. 7, No. 3, March, 2011, Scopus & SCI .
7. Zeyad Mohammad, Yaw-Chung Chen, Chien-Lung Hsu and Chi-Chun Lo, Cryptanalysis and enhancement of authenticated key agreement with key confirmation, IETE Technical Review, vol. 27, no. 3, pp. 252-265, 2010. Scopus & SCI

- Conference Papers:
  1. Abusukhon, Ahmad, Zeyad Mohammad, and Ali Al-Thaher. "Efficient and Secure Key Exchange Protocol Based on Elliptic Curve and Security Models." In 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), pp. 73-78. IEEE, 2019, Scopus.
  2. Mohammad, Zeyad, Ahmad Abusukhon, and Thaer Abu Qattam. "A Survey of Authenticated Key Agreement Protocols for Securing IoT." In 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), pp. 425-430. IEEE, 2019, Scopus.
  3. Mohammad, Zeyad, Thaer Abu Qattam, and Kholoud Saleh. "Security Weaknesses and Attacks on the Internet of Things Applications." In 2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), pp. 431-436. IEEE, 2019, Scopus.
  4. Ahmad Abusukhon, Zeyad Mohammad, and Mohammad Talib, A Novel Network Security Algorithm Based on Encrypting Text into a White-page Image, Proceedings of the World Congress on Engineering and Computer Science 2016 Vol I WCECS 2016, October 19-21, 2016, San Francisco, USA, Scopus.
  5. Zeyad Mohammad and Chi-Chun Lo, Vulnerability of an improved elliptic curve Diffie-Hellman key agreement and its enhancement, E-Business and Information System Security, 2009. EBISS '09. Wuhan, China, IEEE Computer Society, pp.1-5, 2009, EI, Scopus.
- Books:
  1. Zeyad Desuqi Mohammad et al. Computer Skills :(Introduction, Windows, Dos, MSWord, Excel, Internet). Dar Al-Motaz, Amman, Jordan, 2002.

- Under Review the following SCI journal papers which are titled as follows:
  1. Cryptanalysis and Improvement of a Robust Key Agreement Protocol Based on Public Key Authentication with Formal Security Proof and Security Verification Via Scyther, International Journal of Communication Systems, Impact Factor 1.7.
  2. Cryptanalysis of an Efficient Secure Authenticated Key Exchange Without NAXOS' Approach Based on Decision Linear Problem, IET Information Security, Impact factor 0.89.

Honors and Awards

- Acknowledgment and Appreciation for invaluable contribution in attaining the quality Assurance certificate.

- The International Biographical Centre-Cambridge Certificate for Outstanding Engineering Achievement.
- Marquis Who's Who in Science and Engineering.
- Ph.D (Honor) in cryptography and network security from institute of information management, NCTU, 2010.
- Ph.D Scholarship, 4 years, NCTU, Hsinchu, Taiwan, 2005-2009.
- Bachelor of Science in Computer Science Scholarship, 4 years, Ministry of high education, Jordan, 1992-1996.
- Teacher Assistant, NCTU, Hsinchu, Taiwan.
- Research Assistant, user authentication projects, National Science Council and Chang Gung University, Taiwan.

Training and Workshops

- Erasmus international staff week, Altinbas university, Turkey, 05-08-2019 to 09-08-2019.
- Blockchain, Al-Zaytoonah university of Jordan, Amman, Jordan, February 2018.
- Test construction and analysis of results, 12 hours, Al-Zaytoonah university of Jordan, Amman, Jordan, 18-20 June 2017.

Languages

- English: Speaking: Fluent, Reading &Writing: Fluent
- Arabic: Native speaker.