

CURRICULUM VITAE

Zeyad Hashem Desuqi Mohammad

MIS/Business,

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1. Personal Data

Date of Birth: 22/4/1972

Nationality: Jordanian

2. Education

- Ph.D. (Information management/information cryptography and network security) 2010, National Chiao Tung University, Hsinchu, Taiwan.
- M.Sc. (Computer science) 2004, Amman Arab University for Graduate Studies, Amman, Jordan.
- B.Sc. (Computer science) 1996, Mu'tha University, Karak, Jordan.

3. Ph.D. Dissertation

Cryptanalysis and Enhancement of Authenticated Key Agreement Protocols and Their Security Models, National Chiao Tung University, Hsinchu, Taiwan.

4. Employment

Academic Positions



QF11/0110 - 3.0E

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- 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.

Administrative Positions

None

5. Research Interests

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

6. Membership in Scientific Societies and Associations

None

7. 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.



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8. Fellowships and Scholarships

- 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.

9. Teaching Experience

- *Graduate Courses*

Wireless Networks.

- *Undergraduate Courses*

Information security
 Information security and protection
 Network security
 Network monitoring and documentation
 Network management
 Computer wireless network
 Computer network
 Data structure
 Operating system
 Computer algorithm
 Java programming I
 Java programming II
 Network design and simulation I
 Network design and simulation II
 Voice over Internet protocol
 Computer skills
 Visual Basic
 C sharp programming language
 C++ programming language
 Visual C++ programming language
 Data base
 PC components
 ECDL/ICDL
 Pascal programming language
 MS Office
 MS-DOS
 Principle of programming
 Office automation
 System analysis and design
 Computer application in accounting
 Computer application in marketing



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Computer application in administration
 Computer application in finance
 Introduction to Information management
 Data business communication.

10. Supervision of Graduate Research

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

11. Grants

Research Assistant, user authentication projects, National Science Council and Chang Gung University, Taiwan, 96000NT\$.

12. Patents

None.

13. Membership of Committees

- **National and International**
 - *None*
- **University**
 - *Quality Assurance Committee., 9/2016-6/2019.*
 - *Course Plans Committee. 9/2016-6/2019.*
 - *Exams and Evaluation Committee. 9/2015-6/2016.*

14. Professional and Scientific Meetings

Scientific Meetings Organized

The 8th international conference on information technology, Al-Zaytoonah university of Jordan, Amman, Jordan, 2017.

Participation in Scientific meetings

Erasmus international staff week, Altinbas university, Turkey, 05-08-2019 to 09-08-2019.

IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT), 2019.

15. Participation in or organization of curricular and/or extra-curricular activities



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None

16. Publications

Provide numbered lists of:

- 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.



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2. Mohammad, Zeyad, Ahmad Abusukhon, and Thaeer 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, Thaeer 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.