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CURRICULUM VITAE

Zeyad Hashem Desuqi Mohammad

Computer Science Department/ Faculty of Science and Information Technology,

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1. Personal Data

Date of Birth: 22/4/1972
Nationality: Jordanian

2. Education

- Ph.D. (network security and information secrecy) 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, 2010.

4. Employment

Academic Positions
- Assistant Professor(A), Department of Computer Science, Alzaytoonah University of Jordan, Amman, Jordan.
  September, 2020 – Present.

- Assistant Professor(A), Department of Management Information System, Alzaytoonah University of Jordan, Amman, Jordan.
  September, 2019 – August 2020.

- Assistant Professor, Department of Computer Science, Alzaytoonah University of Jordan, Amman, Jordan.
  September, 2013 – August 2019.

- Assistant Professor, Department of Management Information System, Alzaytoonah University of Jordan, Amman, Jordan.
  Octber, 2010 – August 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.
  Sep. 2004 – Sep. 2006.
  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.

5. **Research Interests**

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

6. **Membership in Scientific Societies and Associations**

   N/A

7. **Teaching Experience**

- *Postgraduate Courses*

  - Wireless Networks.

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- *Undergraduate Courses*

    – Computer Network
    – Information security
    – Network security
    – Network monitoring and documentation
    – Network management
    – Computer wireless network
    – Data structure
    – Operating system
    – Computer algorithms
    – Java programing I
    – Java programing II
    – Network design and simulation I
    – Network design and simulation II
    – Voice over internet protocol (VoIP)
    – Computer skills
    – Visual Basic
    – C sharp
    – C++
    – Visual C++
    – Database management system
    – 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 system
    – Data business communication
    – Data analytics
    – Business intelligence.
    – Graduate Project
    – Special topics in C.S.(1)
    – Programming techniques
    – Field Training
    – Graduate Project

8. **Supervision of Graduate Research**

- Co Advisor of Mohamad Mustafa Ahmad Al-Samhouri Master of Computer Science- Al al-Bayt University. 2020-Present. Thesis: A Lightweight Authenticated Key Agreement Protocol Based on Hyperelliptic Curve with Security Verification for Securing the Internet of Things
- Advisor of Kholoud Saleh Master of Computer Science – Alzaytoonah University of Jordan. 2018-2020. Thesis: A Secure and Efficient authenticated key agreement protocol based on Elliptic Curve for Securing the Fog Computing Environment.
- 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 SECURE KEY EXCHANGE PROTOCOL BASED ON ELLIPTIC CURVE AND SECURITY MODELS

9. **Honors and Awards**
- The International Biographical Centre-Cambridge Certificate for Outstanding Engineering Achievement (2016).
- Marquis Who's Who in Science and Engineering (2011)
- Ph.D (Honor) in cryptography and network security from institute of information management, NCTU, 2010.
- Teacher Assistant, NCTU, Hsinchu, Taiwan.
- Research Assistant, user authentication projects, National Science Council and Chang Gung University, Taiwan.

10. **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.

11. **Membership of Committees**

    University
    - 2017-Present, Quality Assurance Committee
    - 2017-2020, Course Plans Committee
    - 2015-2016, College Council Member.
    - 2015-2016, Exams and Evaluation Committee Department.

12. **Professional and Scientific Meetings**

Scientific Meetings Organized

None

Participation in Scientific meetings

None.

13. Publications

Journals:

- **Z. Mohammad**, Cryptanalysis and Improvement of the YAK Protocol with Formal Security Proof and Security Verification Via Scyther, International Journal of Communication System, vol. 33, no. 9, pp. 1-22, SCIE
- **Z. Mohammad**, "Cryptanalysis of an efficient protocol for authenticated key agreement," ICIC Express Letters, vol. 13, no. 4, pp. 293–301, 2019. Scopus
- 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. Scopus
- **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.
- **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.
- **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.
- **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 .
- **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

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Books and Book Chapters

1. Zeyad Desuqi Mohammad et al. Computer Skills :(Introduction, Windows, Dos, MSWord, Excel, Internet). Dar Al-Motaz, Amman, Jordan, 2002.

Conferences

- Zeyad Mohammad,Thaer Abu Qattam and Kholoud Saleh, Security Weaknesses and Attacks on the Internet of Things Applications, JIEET2019, accepted Feb 2019, Scopus.
- Zeyad Mohammad, Ahmad Abusukhon and Thaer Abu Qattam , A Survey of Authenticated Key Agreement Protocols for Securing IoT, JIEET2019, accepted Feb 2019, Scopus.
- Ahmad Abusukhon, Zeyad Mohammad and Ali AlThaher, An Efficient and Secure Key Exchange Protocol Based on Elliptic Curve and Security Models, JIEET2019, accepted Feb 2019, Scopus.
- 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.
- 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, Scopus.