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CURRICULUM VITAE

Mohammad Zakaria Masoud

Electrical Engineering Department/ Communication and Computer/Faculty of Engineering and Technology, Al-Zaytoonah University of Jordan, Amman, Jordan
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1. Personal Data

Date of Birth: 28/4/1984
Nationality: Jordanian

2. Education

- Ph.D. Communication and Information Engineering 2013, Huazhong University of Science and Technology (HUST), Wuhan, Hubei, China
- M.Sc. Electrical and Computer Engineering 2008, New York Institute of Technology (NYIT), Amman, Jordan,
- B.Sc. Computer Engineering 2006, Mu'tah University, Karak, Jordan

3. Ph.D. Dissertation

A Measurement Study of Locality-aware ISP-friendly Real-time Peer-to-Peer Systems, Huazhong University of Science and Technology, Hubei, Wuhan, China.

4. Employment

Academic Positions

- Associate Professor, Electrical Engineering Department, Al-Zaytoonah University of Jordan, Amman, Jordan
  10/2018-Present
- Assistant Professor, Electrical Engineering Department, Al-Zaytoonah University of Jordan, Amman, Jordan

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9/2013-Present

Technical Experience

- System Engineerin Al-Ghanem Trading & Contracting CO.
3/2006-8/2008

5. Honors and Awards

- ICGHIT 2017 Best Paper award "ZSP: A Low Cost Extendable Smartphone design based on Single-Board Computer Technology", Hanzhou, China
- International Conference on Electronics Engineering and Power Engineering 2014 Best Paper Award "Studying the Impact of 32-Bits AS Numbers on Constructing Internet AS Graphs", Kunming, China
-

6. Research Interests

- Design and Measurement of Computer Network and their applications
- P2P Networks
- Ad-hoc Networks
- Graph Theory analysis in Social Networks
- Applying Machine Leaning in Network field and computer security

7. Teaching Experience

- *Undergraduate Courses*
  - Operating Systems
  - Embedded systems: Hi-tech C for PIC and processing for Arduino
  - Computer Networks
  - Advance Computer Networking
  - Cryptography and Network Security
  - Microprocessor: Assembly 8086 and C embedded assembly
  - C programming language
  - Matlab programming
  - Fiber Optic Communication theory
  - Wireless Networking
  - Computer Architecture and Organization
  - Digital Logic Design

8. Grants

- Al-Zaytoonah University of Jordan fund of 22000 JD for research project entitled "On Security Implementation in Wireless Network Utilizing Software Defined Network (SDN) Approach"
- Al-Zaytoonah University of Jordan fund of 11000 JD for research project entitled "Green Lab Energy load balancing algorithm"

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9. **Membership of Committees**

- **National and International**
  - *Jordan Engineering Association (JEA)*
- **University**
  - *Engineering and Technology Facility Computer and E-learning Committee*
  - *Engineering and Technology Community Service Committee*

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

TPC member of

- The 4th International Conference on Wireless Communication and Sensor Network (WCN 2017), Wuhan, China, http://www.wcsn2017.org
- 3rd Annual International Workshop on Wireless Communication and Network (IWWCN2017), Beijing China, www.IWWCN2017.org
- Annual International Conference on Computer Science and Applications 2017, (CSA2017), Beijing China. www.csa2017.org
- 4th International Workshop on Computer Science (WCOS16), Kenitra, Morocco, 2017, www.uit.ac.ma/wcos16/
- 8th International Conference on Engineering, Project, and Production Management (EPPM2017), Amman, Jordan, http://eppm2017.zuj.edu.jo/

Editorial Board Member

- Frontiers of Mechatronical Engineering（FME）Journal
- Electronics Science Technology and Application (ESTA) Journal.

Reviewer

- IEEE ACCESS Journal
- KSII Transactions on Internet and Information Systems Journal
- 2017 International Conference on New Energy and Future Energy System (NEFES 2017)
- Zaytoonah Engineering Conference 2016, ZEC2016
- 2017 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT)

International Certifications

CISCO	- Cisco Certified Network Associated (CCNA)
	- Cisco Certified Network Professional (CCNP)
Microsoft	- Microsoft Certified Professional (MCP)
	- Microsoft Certified Specialist Information

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Technology (MCSIT)
- Microsoft Certified System Associated (MCSA)
- Microsoft Certified System Engineer (MCSE)

Oracle   - Oracle Certified Associated (OCA)

FiberHome   - Fiber Certificate

11. Publications

Book Chapters

[B1].   **Masoud M Z**, Ismael Jannoud, Lubna badri: *Cyber Physical Social System.* Cyber Physical Systems--A Computational Perspective, 11/2015; CRC Press Taylor & Francis Group., ISBN: 9781482259759

Journal Publications

[J1]-   **Masoud M. Z.**, Yousef Jaradat, Ismael Jannoud, Hong Huang. "DRA: Duplication Resolver Algorithm for Power Conservation Utilizing Software Defined Network (SDN)", KSII transaction, 7, 2017 (Scopus, ISI, SCIE)

[J2]-   Yousef Jaradat, Hong Huang, **Masoud M. Z.**, Ismael Jannoud. "Capacity of Wireless Networks with Directed Energy Links in the Presence of Obstacles", IEEE Transactions on Wireless Communications, 4, 2017 (ISI, SCI)

[J3]-   Hong Huang, Yousef Jaradat, Satyajayant Misra, Amjad Abu-Baker, Rafael Asorey-Cacheda, Reza Tourani, **Masoud M. Z.**, and Ismael Jannoud. "Capacity of Large-Scale Wireless Networks Under Jamming: Modeling and Analyses" IEEE Transactions on Vehicular Technology, 2017 (ISI, SCI)

[J4]-   **Masoud M. Z.**, yousef jaradat, ismael jannoud: On Detecting Wi-Fi Unauthorized Access Utilizing Software Define Network (SDN) and Machine Learning Algorithms. International Review on Computers and Software 05/2017; 12(1)., DOI:10.15866/irecos.v12i1.11020

[J5]-   Yousef M. Jaradat**, Masoud M. Z.**, Ismael Jannoud, Hussein Azzawi: Basic Review of Low Rate Denial of Service Attack on Wired and Wireless Networks. International Journal on Communications Antenna and Propagation 03/2017; 6(6)., DOI:10.15866/irecap.v6i6.10932

[J6]-   Amal Ahmad, **Masoud M. Z.**, Shereen Ismail. "Average Memory Access Time Reduction Via Adding Victim Cache" International Journal of Applied Engineering Research (IJAER). 2016 (Scopus)

[J7]-   **Masoud M. Z.**, Yousef Jaradat, Ismael Jannoud and Omar Heyasat. "Internet Access Link Speed between ISPs' Myths and Subscribers' Expectations", WSEAS Communication Transaction Journal, 2016 (Scopus, EI compendex)

[J8]-   **Masoud M. Z.**, Yousef Jaradat, Ismael Jannoud. "The Impact of 16-bit and 32-bit ASNs coexistence on the Accuracy of Internet AS Graph". Journal of Network and Management systems. Springer, 2016 (SCI, ISI)

[J9]- **Masoud M. Z.**, Yousef Jaradat, Ismael Jannoud: *A measurement study of Internet Exchange Points (IXPs): history and future prediction*. Turkish Journal of Electrical Engineering and Computer Sciences 12/2015; (SCIE, ISI)

[J10]- **Masoud M. Z.**, Yousef Jaradat, Ismael Jannoud, Omar Alheyasat: *A Measurement Study of the Quality of Zero Line Programming Technique for Smartphones' Applications*. International Journal on Communications Antenna and Propagation 10/2015; 5(4). DOI:10.15866/irecap.v5i4.6802 (Scopus, EI compendex)

[J11]- Ismael A Jannoud, **Masoud M. Z.**, *On understanding centrality in directed citation graph*. Lecture Notes in Electrical Engineering 08/2014; 9(8). DOI:10.1007/978-3-319-07674-4_5 (ISI)

[J12]- **Masoud M. Z.**, Ismael A. Jannoud: *Studying the Impact of 32-Bits AS Numbers on Constructing Internet AS Graphs*. 04/2014; 548-549:1299-1303. DOI:10.4028/www.scientific.net/AMM.548-549.1299 (Scopus, EI compendex)

[J13]- **Masoud M. Z.**, *Analytical Modelling of Localized P2P Streaming Systems under NAT Consideration*. 05/2013; 5(3):73-89. DOI:10.5121/ijcnc.2013.5306 (EI compendex)

Conference Proceedings

[C1]- **Masoud M. Z.**, Wejdan abu elhaja, Yousef jaradat, Ismael jannoud, Loai daboor *"Software Project Management: Resources Prediction and Estimation Utilizing Unsupervised Machine Learning Algorithm",* EPPM, 2017, Amman, Jordan

[C2]- **Masoud M. Z.,** Yousef Jaradat, Ismael Jannoud, Isra'a Ahmad "*A Measurement Study of Internet Services in Jordan: A Case Study*", IEEE AEECT, Amman, Jordan, 2018

*[C3]- Sami Al-Dalahmeh, Yousef Jaradat, **Masoud M. Z.**, Ismael Jannoud: Contention Delay Distribution in Event Driven Wireless Sensor Network. IEEE JIEEEC; 05/2017*

[C4]- Ahamd Fazaa, **Masoud M. Z.,** Yousef Jaradat, Ismael Jannoud "*ZSP: A Low Cost Extendable Smartphone design based on Single-Board Computer Technology*", ICGHIT 2017, Hanzhou China.

[C5]- **Masoud M. Z.**, Yousef Jaradat, Amal Ahmad "*Machine Learning Approach for Categorizing Internet Autonomous Systems' Links*", ICGHIT 2017 Hanzhou, China

[C6]- **Masoud M. Z.**, yousef Jaradat, amal ahmad "On Tackling Social Engineering Web Phishing Attacks Utilizing Software Defined Networks (SDN) Approach" , IEEE OSSCOM 2016; 12/2016

[C7]- **Masoud M. Z.**, Yousef Jaradat, Mohammad Farhoud, Amar Almdalaleh 'Implementing a Low Cost Quadcopter Drone with Smartphone Control ', ZEC2016,Amman, Jordan

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[C8]-   Mustafa A. Al Sibahee, **Masoud M. Z.**, Zaid Alaa Hussien: LEACH-T: LEACH Clustering Protocol Based on Three Layers. The 2nd Annual International Conference on Network and Information Systems for Computers, Wuhan, Hubei, China; 04/2016

[C9]-   **Masoud M. Z.**, Yousef Jaradat, Ismael Ahmad Jannoud: *On Preventing ARP Poisoning Attack Utilizing Software Defined Network (SDN) Paradigm*. IEEE AEECT, amman; 11/2015

[C10]-   **Masoud M. Z.**, Ismael Jannoud, Amal Ahmad, Haithm Al-Shobaky: *The Power Consumption Cost of Data Encryption in Smartphones*. IEEE OSSCOM 2015, German Jordan University Amman-Jordan; 09/2015

[C11]-   **Masoud M. Z.**, Ismaeel Janoud, Ahmad Al-Nahawy: *A Measurement Study of Eccentricity in Scientific Papers' Citation Network*. Zaytoonah University International Engineering Conference on Design and Innovation in Sustainability, Amman- Jordan; 05/2014

[C12]-   **Masoud M. Z.**, Xiaojun Hei, Wenqing Cheng: *A graph-theoretic study of the flattening Internet AS topology*. 2013 19th IEEE International Conference on Networks (ICON); 12/2013

[C13]-   **Maosud M. Z.**, Hei Xiaojun, Cheng Wenqing: *A Measurement Study of AS Paths: Methods and Tools*. 17th APCC; 10/2012

[C14]-   **Maosud M. Z.**, Hei Xiaojun, Cheng Wenqing: *Constructing a locality aware ISP-friendly peer-to-peer live streaming architecture*. Second IEEE ICIST; 10/2012

[C15]-   **Maosud M. Z.**, Hei Xiaojun, Cheng Wenqing: *A Measurement Study of a Massive Multi-Player Online First Person Shooter Game in Play-Station Networks*. 17th APCC; 10/2012

[C16]-   **Maosud M. Z.**, Xiaojun Hei, Cheng Wenqing: *On the impact of network address translation on locality-aware P2P live streaming systems*. Second IEEE ICIST; 03/2012

[C17]-   Radwan Abujassar and Mohammad Al-Ganbary and **Masoud M. Z.** "An Efficient Algorithm to Create a Loop Free Backup Routing Table", in International Conference on Computer as a Tool (EUROCON), Congress Center, Lisbon, Portugal, April27-29 2011