QF11/0110 - 3.0E	Curriculum Vitae Form

CURRICULUM VITAE

Yousef Mohammed Jaradat

Electrical Engineering/Faculty of Engineering and Technology,
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1. Personal Data

Date of Birth:　　1/12/1977
Nationality:　　Jordanian

2. Education

- Ph.D. (Electrical and Computer Engineering) 2012, New Mexico State University, Las Cruces, New Mexico, USA

- M.Sc. (Computer Science) 2006, Amman Arab University, Amman, Jordan

- B.Sc. (Electrical Engineering) 2000, Jordan University of Science and Technology, Irbid, Jordan

3. Ph.D. Dissertation

New Scheme for Capacity Scaling in Wireless Ad-hoc Networks, New Mexico State University, New Mexico, Las Cruces, USA.

4. Employment

Academic Positions

- Associate Professor, Electrical Engineering, Al-Zaytoonah University of Jordan, Amman, Jordan, March 22, 2018 – now
- Assistant Professor, Electrical Engineering, Al-Zaytoonah University of Jordan, Amman, Jordan, January 13, 2013 – March 21, 2018
- Graduate Assistant, Electrical and Computer Engineering Department / New Mexico State University, USA, 2008-2013.

Administrative Positions

- Chairman of Electrical Engineering Department, Faculty of Engineering and Technology, Al-Zaytoonah University of Jordan, Amman, Jordan – October, 2015 – now.

5. Research Interests

- Ad-hoc and sensor networks
- Wireless communication networks
- Communication networks performance Analysis
- Machine Learning
- Graph theory applications

6. Membership in Scientific Societies and Associations

- The Honor Society of Phi Kappa Phi
- IEEE

7. Fellowships and Scholarships

- Al-Zaytoonah University of Jordan PhD scholarship (2010-2012).
- In-state tuition waiving from New Mexico State University (2008-2012).

9. Teaching Experience

- *Undergraduate Courses*

1. Problem solving using C
2. Problem solving using MATLAB
3. Digital Logic Design
4. Digital Logic Design LAB
5. Probability and Random Processes

6. Introduction to Linear Systems
7. Signals and Systems Analysis
8. Principles of Electrical Engineering
9. Computer Networks
10. Computer Networks LAB
11. Communications Systems LAB
12. Wireless Networks
13. Wireless Communications
14. Artificial intelligence and Machine Learning

10. 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"

11. Membership of Committees

- **National and International**
  - Jordan Engineering Association (JEA)
- **University**
  - Engineering and Technology Faculty Computer and E-learning Committee
  - EE Department QA committee

12. Professional and Scientific Meetings

Participation in Scientific meetings

- 8th International Conference on Engineering, Project, and Production Management (EPPM2017), Amman, Jordan, http://eppm2017.zuj.edu.jo/.
- 10th Jordanian International Electrical and Electronics Engineering Conference (JIEEEC), 2017, Amman, Jordan.
- IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT), 2017, Amman, Jordan.

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

- Schools' Projects Judge, Jubilee Excellence Center, Amman, February 2018.
- Crash course in PV systems, Al-Zaytoonah University of Jordan, February 2018. (ZUJ IEEE Student Branch)
- Crash course in Arduino programming, Al-Zaytoonah University of Jordan, March 2018. (ZUJ IEEE Student Branch)

- University Graduation Projects Judge, JEA, 2016.

14. Publications

Journal Publications:

1. Hajar Barani, **Jaradat Y. M.**, Hong Huang, Zhicheng Li, and Satyajayant Misra, "*Effects of Sink Locations and Packet Redundancy on Capacity and Delay in Multi-Sink Wireless Sensor Networks*", **IET Communications,** February**, 2018.**

2. Mohammad Masoud, **Jaradat Y. M.**, Ismael Jannoud, Hong Huang. "*On Power Consumption Reduction in Computer Networking Utilizing Software Defined Network (SDN) Paradigm*", **KSII Transactions on Internet and Information Systems,** May, 2017**.**

3. **Jaradat Y. M.**, Hong Huang, Mohammad Masoud and Ismael Jannoud: "*Capacity of Wireless Networks with Directed Energy Links in the Presence of Obstacles*", **IEEE Transactions on Wireless Communications,** May, 2017**.**

4. Mohammad Masoud, **Jaradat Y. M.**, Ismael Jannoud: "*On Detecting Wi-Fi Unauthorized Access Utilizing Software Define Network (SDN) and Machine Learning Algorithms*", **International Review on Computers and Software (I.RE.CO.S.),** May, 2017.

5. **Jaradat Y. M.**, Mohammad Masoud, Ismael Jannoud, and Hussein Azzawi: "*Basic Review of Low-rate Denial of Service Attack in Wired and Wireless Networks*", **International Journal on Communications Antenna and Propagation (IRECAP),** IRECAP Vol 6, No 6 , March, 2017.

6. Hong Huang, **Jaradat Y. M.**, Satyajayant Misra , Amjad Abu-Baker, Rafael Asorey-Cacheda, Reza Touran, Mohammad Masoud and Ismael Jannoud :" *Capacity of Large-Scale Wireless Networks Under Jamming: Modeling and Analyses*", **IEEE Transactions on Vehicular Technology Communications,** March, 2017**.**

7. Mohammad Masoud, **Jaradat Y. M.**, Ismael Jannoud and Omar Heyasat. "*Internet Access Link Speed between ISPs' Myths and Subscribers Expectations*", **WSEAS Communication Transaction Journal**, 2016.

QF11/0110 - 3.0E	Curriculum Vitae Form

8. Mohammad Masoud, **Jaradat Y. M.**, 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.

9. Mohammad Masoud, **Jaradat Y. M.**, Ismael Jannoud: "*A measurement study of Internet Exchange Points (IXPs): history and future prediction*". **Turkish Journal of Electrical Engineering and Computer Sciences** 12/2015.

10. Mohammad Masoud , **Jaradat Y. M.** , 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**, October, 2015.

11. Hong Huang, **Jaradat Y. M.**, Satyajayant Misra, and Reza Tourani: "*Towards Achieving Linear Capacity Scaling in Wireless Networks through Directed Energy Links*", **IEEE Transactions on Wireless Communications**, 13(4): 1806-1814 (2014).

12. M. Balakrishnan, Hong Huang, Rafael Asorey-Cacheda, Satyajayant Misra, Sandeep Pawar, **Jaradat Y. M.**: "*Measures and Countermeasures for Null Frequency Jamming of On-Demand Routing Protocols in Wireless Ad Hoc Networks*". **IEEE Transactions on Wireless Communications** 11(11): 3860-3868 (2012).

Conference Publications:

1. **Jaradat Y. M**., Ismael Jannoud, Mohammad Masoud, and Wejdan Abu-Elhaija, "*A Roadmap for SDN-based Network Management: Al-Zaytoonah University of Jordan Case*", IEEE 18th STA 2017, December, 2017.

2. Mohammad Masoud, **Jaradat Y. M.**, Ismael Jannoud, and Esraa Bashayreh, "*A Measurement Study of Internet Services in Jordan: A Case Study*", IEEE AEECT 2017, October, 2017.

3. Mohammad Masoud, Wejdan Abu-Elhaija**, Jaradat Y. M**.; Ismael Jannoud, and loai dabbour, "*Software Project Management: Resources Prediction and Estimation Utilizing Unsupervised Machine Learning Algorithm*", EPPM 2017, September, 2017.

4. Sami Al-Dalahmeh, **Jaradat Y. M.**, Mohammad Masoud, and Ismael Jannoud, "*Contention Delay Distribution in Event Driven Wireless Sensor Network*", IEEE JIEEEC, May, 2017.

QF11/0110 - 3.0E	Curriculum Vitae Form

5. Hajar Barani, **Jaradat Y. M.**, Hong Huang, Zhicheng Li, and Satyajayant Misra, "*The Effect of Popularity Rule on Capacity and Delay in Multi-Sink WSNs*", **IEEE WCNC**, March, 2017.

6. Mohammad Masoud, **Jaradat Y. M.**, and Amal Ahmad, "*Machine Learning Approach for Categorizing Internet Autonomous Systems' Links*", International Conference on Green and Human Information Technology 2017, Hangzhuo, China, February, 2017.

7. Mohammad Masoud, **Jaradat Y. M.**, and Ismael Jannoud, "*ZSP: A Low Cost Extendable Smartphone design based on Single-Board Computer Technology*", International Conference on Green and Human Information Technology 2017, Hangzhuo, China, February, 2017.

8. Mohammad Masoud, **Jaradat Y. M.**, and Amal Ahmad, "*On Tackling Social Engineering Web Phishing Attacks Utilizing Software Defined Networks (SDN) Approach*", The second **IEEE OSSCOM** 2016, Beirut, Lebanon, December, 2016.

9. Mohammad Masoud, **Jaradat Y. M.**, Mohammad Farhoud, Amar Almdalaleh "*Implementing a Low Cost Quadcopter Drone with Smartphone Control* ", **ZEC2016**, Amman, Jordan.

10. Mohammad Masoud, **Jaradat Y. M.**, Ismael Ahmad Jannoud: "*On Preventing ARP Poisoning Attack Utilizing Software Defined Network (SDN) Paradigm*". **IEEE AEECT**, Amman; 11/2015

11. Manikanden Balakrishnan, Hong Huang, Satyajayant Misra, Rafael Asorey-Cacheda, **Jaradat Y. M.**, Sandeep Pawar: "*Null Frequency Jamming of Dynamic Routing in Wireless Ad Hoc Networks*". **GLOBECOM** 2011: 1-5.

12. H. Al-Bahadili and **Jaradat Y. M.**, "*Development and Performance Analysis of a Probabilistic Flooding in Noisy Mobile Ad Hoc Networks*", Proceedings of the 1st International Conference on Digital Communications and Computer Applications (**DCCA2007**), 1306-1316, Jordan, 2007.