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Educational Background

- Ph.D. in Electrical Engineering, Iowa State University, Department of Electrical and Computer Engineering, Iowa, USA, August/2016 (GPA: 3.93/4.0), Excellent.
- Master Degree in Mechatronics Engineering, Al Balqa Applied University, Faculty of Engineering Technology, Amman, Jordan, July/2011 (GPA: 3.82/4.0), Excellent.
- Bachelor Degree in Electrical and Computer Engineering, The Hashemite University, Zarqa, Jordan, June/2008 (GPA: 3.51/4.0), Excellent. The 10th among the country for the Jordanian Universities Achievements Test.
- The General Secondary Education Certificate Examination, North Latin School, Jordan, June/2004 (91.2%).

Work Experience

- Assistant Professor, Department of Mechatronics Engineering, The German Jordanian University, August/2016- Present.
- Research and Teaching Assistant, Department of Mechatronics Engineering, The German Jordanian University, August/2011- August/2012.
- Laboratory Supervisor, Electrical Engineering Department, The Hashemite University, June/2008- August/ 2011.
- Trainee at Jordan Telecom Group in Amman, February/2008 – April/2008.

Skills and Programming

Architecture Analysis and Design Language (AADL), AADL Annex AGREE (Assume Guarantee Reasoning Environment) plug-in, OPNET, NuSMV, Spin, Encase, FTK, Cisco Certified Network Associate (CCNA) Exploration, Embedded System Design Using PIC MCUs. Microbasik (C-Sharp), Cisco Packet tracer, Mplab, MATLAB, MULTISIM, Auto Cad (2D), LaTeX, ICDL, Computer Maintenance, the Successful Skills from Junior Achievement (Injaz).

Publications

- **Mariam Ibrahim**, “Level of Resilience Measure for Communication Networks”, Journal of Information and Communication Technology (JICT), Accepted, (September, 2017).
- **Mariam Ibrahim**, “A Resiliency Measure for Communication Networks”, IEEE 8th International Conference on Information Technology, Amman, Jordan, (May 17-18, 2017).
- **Mariam Ibrahim**, Jun Chen and Ratnesh Kumar, “Quantification of Centralized/Distributed Secrecy in Stochastic Discrete Event Systems”, In Recent Advances in Systems Safety and Security, Editors Emil Pricop, and Grigore Stamatescu, Volume 62, Chapter 2, ISBN : 978-3-319-32523-1, Springer International Publishing, 2016.

- Jun Chen, **Mariam Ibrahim**, and Ratnesh Kumar, “Quantification of Secrecy in Partially Observed Stochastic Discrete Event Systems”, IEEE Transactions on Automation Science and Engineering, accepted (Sep 2015).
- **Mariam Ibrahim**, Jun Chen and Ratnesh Kumar, “A Resiliency Measure for Electrical Power Systems”, IEEE International Workshop on Discrete Event Systems, pages: 385 - 390, Xi'an, China, (May 2016).
- **Mariam Ibrahim**, Jun Chen and Ratnesh Kumar, “Quantification of Distributed Secrecy Loss in Stochastic Discrete Event Systems under Bounded-Delay Communications”, IEEE International Workshop on Discrete Event Systems, pages: 373 - 378, Xi'an, China, (May 2016).
- **Mariam Ibrahim**, Jun Chen and Ratnesh Kumar, “An Information Theoretic Measure for Secrecy Loss in Stochastic Discrete Event Systems”, 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), pages: 1 – 6, Bucharest, Romania, (Jun 2015).
- **Mariam Ibrahim**, Jun Chen, and Ratnesh Kumar, ‘Secrecy in Stochastic Discrete Event Systems’, IEEE International Conference on Networking, Sensing and Control, pages 48-53, Miami, FL, (April 2014).

Presentations and Talks

1. S2ERC (NSF’s Research Center) meetings in Fall 2014, Spring 2015, Fall 2015, Spring 2016, Summer 2016.
2. Poster Presentation in “4th Midwest Workshop on Control and Game Theory”, Iowa State University, Ames, Iowa, (Apr. 25-26 2015).
3. Graduate Seminar and graduate poster on Fall 2015.