

Anas Al Majali, (Assistant Professor)

DEGREES:

- PhD, Computer Engineering
University of Southern California, 2014
"A Function-based Methodology for Evaluating Resilience in Smart Grids"
- MS, Computer Engineering
University of Southern California, 2008
- BSc, Computer Engineering
University of Jordan, 2005



EXPERIENCE:

Academic:

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|------------------------------|---|
| 2014–Present | Assistant Professor, The Hashemite University, Jordan |
| Summer 2017 -
Summer 2018 | Assistant Dean for Industrial Outreach and Training, Faculty of Engineering, The Hashemite University |
| 2011–2014 | Research Assistant – Information Sciences Institute, University of Southern California. Member of the Cyber Security team in the Los Angeles Department of Water and Power (LADWP) Smart Grid Regional Demonstration Project. |
| Fall 2010 | Teaching Assistant – University of Southern California, Computer Security Systems (CSCI530) – Computer Science Department. |
| Spring 2010 &
Fall 2009 | Teaching Assistant – University of Southern California, Computer Organization (EE457) – Electrical Engineering Department. |

Industrial:

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| 2005–2007 | Systems Engineer, Jordan Data System (JDS), Jordan |
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COURSES TAUGHT:

- Computer Security
- Information Systems and Network Infrastructure Protection
- Special Topics in Computer Engineering – Probabilistic Methods to Model Computer Networks
- Digital Logic
- Digital Logic and Microprocessors Lab

PRINCIPAL PUBLICATIONS OF LAST FIVE YEARS:

1. Yousef, Khalil M. Ahmad, **Anas AlMajali**, Salah Abu Ghalyon, Waleed Dweik, and Bassam J. Mohd. "Analyzing Cyber-Physical Threats on Robotic Platforms." *Sensors* 18, no. 5 (2018): 1643.

2. Wadhawan, Yatin, Clifford Neuman, and **Anas Al Majali**. "A Systematic Approach for Analyzing Multiple Cyber-Physical Attacks on the Smart Grid." *ICCSCPS 2018: International Conference on Cyber Security of Cyber Physical Systems*, 2018.
3. Yousef, Khalil M. Ahmad, **Anas AlMajali**, Waleed Dweik, and Bassam Mohd. "Security risk assessment of the PeopleBot mobile robot research platform." In *Electrical and Computing Technologies and Applications (ICECTA), 2017 International Conference on*, pp. 1-5. IEEE, 2017.
4. Wadhawan, Yatin, Clifford Neuman, and **Anas AlMajali**. "Analyzing cyber-physical attacks on smart grid systems." In *Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES), 2017 Workshop on*, pp. 1-6. IEEE, 2017.
5. **AlMajali, Anas**, and Waleed Dweik, "Analysing and modelling worm propagation speed in the smart grid communication infrastructure." *Accepted* for publication in the International Journal of Embedded Systems (IJES). 2017.
6. **AlMajali, Anas**, Arun Viswanathan, and Clifford Neuman. "Resilience Evaluation of Demand Response as Spinning Reserve under Cyber-Physical Threats." *Electronics* 6, no. 1 (2016): 2.
7. **AlMajali, Anas**, and Waleed Dweik. "Modeling worm propagation in the advanced metering infrastructure." In *Electronic Devices, Systems and Applications (ICEDSA), 2016 5th International Conference on*, pp. 1-4. IEEE, 2016.
8. Ryutov, Tatyana, **Anas AlMajali**, and Clifford Neuman. "Modeling security policies for mitigating the risk of load altering attacks on smart grid systems." In *Modeling and Simulation of Cyber-Physical Energy Systems (MSCPES), 2015 Workshop on*, pp. 1-6. IEEE, 2015.
9. Rice, Eric B., and **Anas AlMajali**. "Mitigating the risk of cyber attack on smart grid systems." *Procedia Computer Science* 28 (2014): 575-582.
10. **AlMajali, Anas**, Eric Rice, Arun Viswanathan, Kymie Tan, and Clifford Neuman. "A systems approach to analysing cyber-physical threats in the Smart Grid." In *Smart Grid Communications (SmartGridComm), 2013 IEEE International Conference on*, pp. 456-461. IEEE, 2013.
11. **AlMajali, Anas**, Arun Viswanathan, and Clifford Neuman. "Analyzing resiliency of the smart grid communication architectures under cyber attack." In *CSET*. 2012.

PROFESSIONAL MEMBERSHIP:

- Jordanian Engineering Association (JEA)
- Institute of Electrical and Electronics Engineers (IEEE)

INSTITUTIONAL AND PROFESSIONAL SERVICE IN LAST FIVE YEARS:

- Assistant Dean, Faculty of Engineering, The Hashemite University, Summer 2017 - Summer 2018.
- Coordinator, Social Committee, Faculty of Engineering, The Hashemite University, Academic Year 2015–2016.
- Member, Graduation Projects and Training Committee, Computer Engineering Department, The Hashemite University, Academic Year 2015–2016.