

# CURRICULUM VITAE

## Habib M. Ammari

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### RESEARCH INTERESTS

- Connected  $k$ -coverage, geographic forwarding, cryptography, security, and computational geometry in wireless sensor networks
- Safety in cyber-physical systems

### EDUCATION

- Ph.D. in Computer Science and Engineering, University of Texas at Arlington, May 2008.
- Ph.D. in Computer Science, Faculty of Sciences of Tunis, December 1996.

### SELECTED COURSES

- Independent Study (Norfolk State University), Fall 2016.
- Computer Science Seminar, Advisor for Senior Undergraduate Students, Fall 2016.
- Data Structures (Norfolk State University), Fall 2016.
- Computer Programming I (Norfolk State University), Fall 2016.
- Computer Programming I Lab (Norfolk State University), Fall 2016.

### SELECTED AWARDS

- Distinguished Research Award, University of Michigan-Dearborn, February 19, 2014.
- Lawrence A. Stessin Prize for Outstanding Scholarly Publication (*i.e.*, Distinguished Research Award), Hofstra University, May 16, 2010.

### SELECTED RESEARCH GRANTS

- National Science Foundation CAREER Award, “A Theoretical Foundation for Achieving Sustainability and Scalability in 3D Wireless Sensor Network Deployments,” Sole PI, \$450,000 (6/2011-5/2016).
- National Science Foundation Research Grant Award, “A Collaborative and Secure  $k$ -Cover-Sense-Inform Framework ( $k$ -CSI) for Heterogeneous Deployment of Mission-Oriented Mobile Wireless Sensor Networks,” Sole PI, \$400,000 (8/2009-9/2013).

### SELECTED PUBLICATIONS

- Habib M. Ammari, “3D- $k$ Cov-ComFor: An energy-efficient framework for composite forwarding in duty-cycled  $k$ -covered three-dimensional wireless sensor networks,” ACM Transactions on Sensor Networks (ACM TOSN), To Appear, 2016.
- Habib M. Ammari, “A unified framework for  $k$ -coverage and data collection in heterogeneous wireless sensor networks,” Elsevier Journal of Parallel and Distributed Computing (Elsevier JPDC), 89, pp. 37-49, 2016.
- Habib M. Ammari, “Investigating the Energy Sink-Hole Problem in Connected  $k$ -Covered Wireless Sensor Networks,” IEEE Transactions on Computers (IEEE TC), 63(11), pp. 2729-2742, November 2014 (Accepted from the first round of review).
- Habib M. Ammari, “Joint  $k$ -Coverage and Data Gathering in Sparsely Deployed Sensor Networks – Impact of Purposeful Mobility and Heterogeneity,” ACM Transactions on Sensor Networks (ACM TOSN), 10(1), Article No. 8, November 2013.
- Habib M. Ammari, “CSI: Cover-Sense-Inform in  $k$ -Covered Wireless Sensor Networks,” IEEE Transactions on Parallel and Distributed Systems (IEEE TPDS), 23(4), pp. 651-658, April 2012.

### SELECTED INVITED TALKS

- Spring 2016 Seminar Series, Department of Mathematics and Computer Science, School of Arts and Sciences, York College, May 2016.
- Spring 2016 Seminar Series, Computer, Electrical and Mathematical Sciences and Engineering Division, King Abdullah University of Science and Technology (KAUST), Saudi Arabia, February 2016.

- Third Arab-American Frontiers of Sensor Science Symposium, King Abdullah University of Science and Technology (KAUST), Saudi Arabia, “Session I: Sensor Processes, Circuits, and Networks.” This symposium is under the overarching theme of “Sensing Technologies, Networks and Applications”, and is organized by the U.S. National Academy of Sciences (NAS) and KAUST, Saudi Arabia, December 5-7, 2015.
- Spring 2015 Seminar Series, Department of Computer Science and Information Systems Engineering, College of Arts and Sciences, Fort Hays State University, February 2015.
- Fall 2014 Seminar Series, Department of Computing Technology, School of Computer Science and Mathematics, Marist College, November 2014.
- Spring 2014 Seminar Series, Department of Electrical Engineering and Computer Science, Texas A&M University-Kingsville, March 2014.
- 2013-2014 Academic Year EECS Department Seminar Series of the Department of Electrical Engineering and Computer Science, University of Central Florida, October 2013.
- Spring 2013 Colloquium Series, Department of Computer Science, University of Massachusetts, Boston, May 2013.
- Spring 2013 Colloquium Series, Department of Computer Science and Engineering, University of Nevada, Reno, March 2013.
- Fall Semester 2012 Research Colloquium, Department of Computer Science, Old Dominion University, November 2012.
- Spring 2012 Department Research Seminar, Department of Computer Science, Wayne State University, March 2012.
- Fall 2011 Computer Science Colloquia Series, Department of Computer Science, University of Massachusetts Lowell, October 2011.

#### **SELECTED DEPARTMENTAL SERVICES**

- Founding Coordinator, Computer Science Distinguished Lecture Series, Fall 2016 – Present.
- Founding Coordinator, Computer Science Research Colloquium Series, Fall 2016 – Present.
- Co-Founder and Member, Ph.D. Program Committee, Department of Computer Science, Fall 2016 – Present.
- Member, Graduate Program Committee, Department of Computer Science, Fall 2016 – Present.
- Chair, Special Events Committee, Department of Computer Science, Fall 2016 – Present.

#### **SELECTED PROFESSIONAL ACTIVITIES**

- General Chair, The Sixth IEEE Annual International Workshop on Mission-Oriented Wireless Sensor and Cyber-Physical System Networking (IEEE MiSeNet), 2017 (In conjunction with IEEE INFOCOM 2017).
- General Chair, The Eleventh IEEE International Workshop on Wireless Mesh and Ad Hoc Networks (IEEE WiMAN), 2017 (In conjunction with IEEE ICCCN 2017).
- Symposium Chair, Signal Processing for Communication Symposium, International Conference on Computing, Networking and Communication (ICNC), 2017.
- Track Chair, 14<sup>th</sup> Intl. Conference on Mobile Systems and Pervasive Computing (MobiSPC), 2017.
- General Chair, The 12<sup>th</sup> Intl. Conference on Distributed Computing in Sensor Systems (DCoSS), 2016.
- Program Chair, The Fifth IEEE Annual International Workshop on Mission-Oriented Wireless Sensor Networking (IEEE MiSeNet), 2016 (In conjunction with IEEE INFOCOM 2016).
- General Chair, The 12<sup>th</sup> Intl. Conference on Mobile Systems and Pervasive Computing (MobiSPC), 2015.
- Track Chair, 11<sup>th</sup> IEEE International Conference on Mobile Ad hoc and Sensor Systems (IEEE MASS), 2014.
- Program Chair, The 5<sup>th</sup> Intl. Conf. on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN), 2014.
- Program Chair, The 9<sup>th</sup> Intl. Conference on Distributed Computing in Sensor Systems (DCOSS), 2013.
- Program Chair, The Second ACM Annual International Workshop on Mission-Oriented Wireless Sensor Networking (ACM MiSeNet), 2013 (In conjunction with ACM MobiCom 2013).
- Founder and Program Chair, The First ACM Annual International Workshop on Mission-Oriented Wireless Sensor Networking (ACM MiSeNet), 2012 (In conjunction with ACM MobiCom 2012).
- Publicity and Web Chair, The 17<sup>th</sup> Annual International Conference on Mobile Computing and Networking (ACM MobiCom), 2011.