

## FACULTY VITAE

1. **Name** Dalei Wu

2. **Education**

|       |                        |                                |      |
|-------|------------------------|--------------------------------|------|
| B.S.  | Electrical Engineering | Shandong University            | 2001 |
| M.S.  | Electrical Engineering | Shandong University            | 2004 |
| Ph.D. | Computer Engineering   | University of Nebraska-Lincoln | 2010 |

3. **Academic experience**

|                                       |             |                 |    |
|---------------------------------------|-------------|-----------------|----|
| University of Tennessee Chattanooga   | Asst. Prof. | 2014-present    | FT |
| Massachusetts Institute of Technology | Postdoc.    | 10/2011-06/2014 | FT |
| University of Nebraska-Lincoln        | Postdoc.    | 01/2011-09/2011 | FT |

4. **Non-academic experience**

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|--|-------------------|
| ZTE Telecommunication Corporation  | Software Engineer |
| Involved in the R&D of WiMAX communication system and developed the software module of multiple input multiple output (MIMO) as well as the interface with other physical layer modules. |                   |
| 01/2005-08/2005  | FT                |

5. **Certifications or professional registration**

N/A

6. **Current membership in professional organizations**

Institute of Electrical and Electronics Engineers (IEEE)

7. **Honors and awards**

- Team semifinalist, MIT \$100K Entrepreneurship Competition, 2013
- Chinese Government Award for Outstanding Students Abroad, 2010
- Outstanding Graduate Research Fellowship, University of Nebraska-Lincoln, USA, 2009
- Student Travel Grant Award, The 6th IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), 2009

8. **Service activities (selected in the period since the last general review)**

- Associate Editor, Wiley Security and Communication Networks Journal
- Associate Editor, International Journal of Information Security and Privacy
- Editor, Journal of Communications and Information Sciences
- Editorial Board Member, Journal of Network and Communication Technologies
- Editorial Board Member, Journal of Cyber-Physical Systems
- Guest Editor, Wiley's Security & Communications Networks Journal, Special Issue on Security and Networking for Cyber-Physical Systems, 2013
- Guest Editor, International Journal of Ad Hoc and Ubiquitous Computing, Special Issue on Localization and Positioning for Healthcare Applications, 2013
- TPC member of IEEE INFOCOM 2016

## 9. Most Important Publications And Presentations From The Past Five Years

- D. Wu, D. Chatzigeorgiou, K. Youcef-Toumi, and R. Mansour, "Node Localization in Robotic Sensor Networks for Pipeline Inspection," *IEEE Transactions on Industrial Informatics*, accepted.
- J. Tian, H. Zhang, D. Wu, and D. Yuan, "Interference-Aware Cross-layer Design for Distributed Video Transmission in Wireless Networks," *IEEE Transactions on Circuits and Systems for Video Technology*, accepted.
- Z. Zhang, I. Silva, D. Wu, J. Zheng, H. Wu, W. Wang, "Adaptive Motion Artifact Reduction in Respiration and ECG Signals for Wearable Healthcare Monitoring Systems," *Medical & Biological Engineering & Computing*, 52(12):1019-30, Dec. 2014.
- A. Rashwan, H. Wang, D. Wu, and X. Huang, "Security-Quality Aware Routing for Wireless Multimedia Sensor Networks Using Secret Sharing", *Security and Communication Networks*, in print, Dec. 2014.
- D. Wu, D. Chatzigeorgiou, K. Youcef-Toumi, S. Mekid, and R. Mansour, "Channel-aware Relay Node Placement in Wireless Sensor Networks for Pipeline Inspection", *IEEE Transactions on Wireless Communications*, vol. 13, no. 7, July 2014.
- W. An, X. Wang, H. Luo, D. Wu, and S. Ci, "Effective Sensor Deployment Based on Field Information Coverage in Precision Agriculture", *Wiley Journal of Wireless Communications and Mobile Computing*, Sept. 2013.
- S. Ci, J. Qian, D. Wu, and A. Keyhani, "Impact of Wireless Communication Delay on Load Sharing among Distributed Generation Systems through Smart Microgrids", *IEEE Wireless Communications*, Special Issue on Recent Advances in Wireless Technologies for Smart Grid, June 2012.
- S. Ci, D. Wu, Y. Ye, Z. Han, G. Su, H. Wang, and H. Tang, "Video Summary Delivery over Cooperative Wireless Networks", *IEEE Wireless Communications*, Special Issue on User Cooperation in Wireless Networks, April 2012.
- D. Wu, S. Ci, H. Luo, Y. Ye, and H. Wang, "Video Surveillance over Wireless Sensor and Actuator Networks Using Active Cameras", *IEEE Transactions on Automatic Control*, Special Issue on Wireless Sensor and Actuator Networks, vol. 56, no. 10, Oct. 2011.
- D. Wu, S. Ci, H. Luo, and H. Guo, "A Theoretical Framework for Interaction Measure and Sensitivity Analysis in Cross-Layer Design", *ACM Transactions on Modeling and Computer Simulation*, Special Issue on Modeling and Simulation of Cross-Layer Interactions in Communication Networks, vol. 21, issue 1, Dec. 2010.
- D. Wu, S. Ci, H. Wang, and A. Katsaggelos, "Application Centric Routing for Video Streaming over Multi-hop Wireless Networks", *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 20, no. 12, Dec. 2010.

## 10. Recent Professional Development Activities

- UTC CRISP project: Virtual TaiJi System - An Innovative Modality for Rehabilitation, with Yu Liang (Lead PI), Zibin Guo, Nancy Fell, and Amanda Clark 2015-2016, \$8,000.
- Attendance at the 1<sup>st</sup> Annual Conference on Exploring Big Data & Analytics 2015
- Attendance at the InfoSecCD Conference 2014