

Dr. Raed Taleb Al-Zubi

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Areas of Interests

- Wireless Networks
- Cross-layer Design
- Wireless Communications
- Ultra-wideband Communications

Education

- August. 2010 **Ph.D.** Electrical and Computer Engineering, University of Arizona, Tucson, AZ (GPA 4.0).
- January. 2005 **M.S.** Degree, Department of Electrical Engineering, Faculty of Engineering, University of Jordan, Amman-Jordan (3.81 Rank 1st).
- June. 2002 **BCs.** Degree, Department of Electrical Engineering, Faculty of Engineering, University of Jordan, Amman-Jordan (3.37 Rank: In top 10 of class).

Publications

Journal Articles

1. Raed Al-Zubi and Marwan Krunz, "Interference Management and Rate Adaptation in OFDM-based UWB Networks", *to appear in the IEEE Transactions on Mobile Computing (TMC)*.
2. Raed Al-Zubi and Marwan Krunz, "Cross-layer Design for Efficient Resource Utilization in WiMedia UWB-based WPANs" *to appear in the ACM Transactions on Modeling and Computer Simulation (TOMACS)*.
3. Raed Taleb Al-Zubi and Dia Abu-Al-Nadi, "Automated personal identification system based on human iris analysis," *Pattern Analysis and Applications (PAA)*, Vol.10, Issue 2, pp. 147-164, May 2007.

Conferences

1. Raed Al-Zubi, Marwan Krunz, and Leo Lopes, "Resource Utilization Mechanism for Multi-rate Ultra-wide Band Networks." *Accepted for IEEE GLOBECOM Conference*, Miami, Florida, December 2010.

2. Raed Al-Zubi and Marwan Krunz, "Overhearing-aware Joint Routing and Rate Selection in Multi-hop Multi-rate UWB-based WPANs." *Accepted for IEEE INFOCOM Conference*, San Diego, CA, March 2010. (Acceptance rate = 17.5 %)
3. Raed Al-Zubi, Mohammad Z. Siam, and Marwan Krunz, "Coexistence Problem in IEEE 802.22 Wireless Regional Area Networks." *Accepted for IEEE GLOBECOM Conference*, Hawaii, November 2009.
4. Raed Al-Zubi, Marwan Krunz, and Alaa Muqattash, "Interference Management Distributed Reservation Protocol for OFDM-Based UWB Communications," in *Proceedings of the IEEE GLOBECOM Conference*, New Orleans, November 2008.

Research Experiences

May. 2007- August. 2010

Research Assistant, Electrical & Computer Engineering, University of Arizona.

Research areas: Cross-layer designs for ultra-wideband (UWB) networks, MAC, routing protocols, and channel/power/rate allocation over wireless networks.

Teaching and Professional Experiences

May 2001-Aug.2001 Training in Jordan Telecommunications Company (JTC). Several real-life situations were studied, overall operation of JTC was taught in classroom training, and then the fieldwork in the exchange and transmissions departments was observed.

June 2002- Jan. 2005 Teaching Assistant, Electrical Engineering Department, University of Jordan, Amman-Jordan.

Feb. 2005-Dec. 2006 Lecturer, Faculty of Engineering, University of Jordan, Amman-Jordan.

Skills

Languages: C, C++, CSIM, MATLAB, LATEX, Visual Basic, FORTRAN, AutoCAD.

Awards received

- The Hisham Adeeb Hijjawi Award for Applied Science 2007, Jordan.

Memberships

- . Jordan Engineers Association, since October 2002
- . IEEE, since February 2003.
- . Internet and Computer Club, Jordan University, 1999-2002.