

*The Electrical and Computer Engineering Program presents
ECEN Seminar Series*

Spectrum Agility and Security Challenges in Opportunistic Wireless Networks

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Sunday, 12 May 2013, 12 – 1 p.m.

Lecture Hall 144

Light lunch will be served

Through dynamic access to the radio spectrum, cognitive radios (CRs) promise to provide reliable and programmable wireless communications whenever and wherever needed. Although the development of CRs is still in its infancy, the technology has already attracted a lot of attention from government agencies and private corporations, which have been pushing for accelerating the research pace in this area. Despite the vast published literature on CR/DSA systems, harvesting the benefits of CRs in practical deployment scenarios still faces various technical, economic, and policy challenges. In this talk, I will address some of these challenges and present potential solutions, with emphasis on performance and security issues.



Marwan Krunz is a professor of ECE and CS at the University of Arizona. He is also the UA site director for "Connection One", a joint NSF/state/industry center that focuses on wireless communication systems and networks. In 2010, Dr. Krunz was a Visiting Chair of Excellence at the University of Carlos III de Madrid, and concurrently a visiting researcher at Institute IMDEA Networks. He spent the summer of 2011 at the University of Jordan as a Fulbright Senior Specialist, where he evaluated academic programs and interacted with administrators, faculty, and students. He previously held other visiting research positions at INRIA, HP Labs (Palo Alto), University of Paris VI, and US West Advanced Technologies. Dr. Krunz's research interests lie in the fields of computer networking and wireless communications, with focus on distributed radio resource management in wireless and sensor networks; protocol design; and secure communications. He has published more than 190 journal articles and refereed conference papers. Dr. Krunz is an IEEE Fellow, an Arizona Engineering Faculty Fellow (2011-2014), and an IEEE Communications Society Distinguished Lecturer (2013 and 2014). He was the recipient of the 2012 IEEE Communications Society Technical Committee on Communications Outstanding Service Award. He received the National Science Foundation CAREER award (1998). He currently serves on the editorial board for the IEEE Transactions on Network and Service Management. Previously, he served on the editorial boards for the IEEE/ACM Transactions on Networking, the IEEE Transactions on Mobile Computing, the Computer Communications Journal, and the IEEE Communications Interactive Magazine. He was the general co-chair for the ACM WiSec 2012 Conference, and served as a TPC chair for various international conferences, including INFOCOM'04, SECON'05, and WoWMoM'06. He has served and continues to serve on the executive and technical program committees of numerous international conferences, and on the panels of several funding agencies. He was the keynote speaker, an invited panelist, and a tutorial presenter at various international conferences.

FOR MORE INFORMATION:

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