

Delta Computing & Engineering Colloquium

Hosted by the School of Science & Computer Engineering

Thursday, February 18, 2016

Delta 241, 11:30 a.m. - 12:30 p.m.

Driven Spectrum WLANs: Efficiency, Scaling, and Sharing

Dr. Edward Knightly

Department of Electrical Engineering and Computer Engineering
Rice University

Worldwide, spectrum regulators are repurposing spectrum and introducing new frameworks for spectrum sharing. In this talk, I will describe new standards, prototypes, and research advances exploiting new spectrum bands. I will focus on the unique characteristics of bands below 1 GHz, often termed the “beach front property” of spectrum due to their superior range and penetration capabilities compared to existing WiFi bands. I will describe capabilities and limitations of recent techniques for realizing high spectral efficiency including medium access exploiting multi-user MIMO. I will draw on experiences from ongoing research trials and measurement studies in Houston, Texas and Itaipu, Brazil.

Host: Dr. Sadegh

Refreshments will be served in Delta 236 from 11:00 a.m. – 11:30 a.m.!

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Any person needing an accommodation for a disability to participate in this program should contact the sponsoring organization at (281) 283-3770 to make the necessary arrangements.

