Seminar Talk

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3:00 p.m. KH 224

Title:
Telecommunication & Networking: From Theory to Practice (Where do I park?)

Abstract:
Parking availability and parking locator are two famous applications in VANET. At James Madison University, we use technology to minimize the traffic on campus. Our goal is to use vehicular resources with cellular networks to help drivers to find a parking spot on campus near their destination in “near” real-time fashion. Our idea can be generalized to big malls or stadium parking lots where events restrict the parking depending on decals and permits. Moreover, we study the idea of locking your vehicle using a phone application that saves the location. The “saved location” can help the driver – later - to locate his/her vehicle in case of large parking garages. In this project, we identify some security challenges that also need to be addressed.

Biography:
Dr. Samy El-Tawab received his Ph.D. in Computer Science from Old Dominion University in 2012. He is currently an Assistant Professor in James Madison University and has been working on the issues surrounding Intelligent Transportation, Vehicular Ad-Hoc Networks, Sensor Networks, Multimedia Communication and Computer Security. Dr. El-Tawab main research areas include intelligent parking systems, intelligent vehicles, security, routing, and Voice over IP. Dr. El-Tawab introduced a system named “FRIEND”: A Cyber-Physical System for Traffic Flow Related Information aggregation and Dissemination. In 2009, he was awarded a prize for Excellence in Scholarship at The College of William and Mary’s 8th Annual Graduate Research Symposium. He has more than 20 publications including journal/conference papers, book chapters, and posters. He also serves as a reviewer in several journals and conferences.