

UW CENTER FOR PATTERN ANALYSIS AND MACHINE INTELLIGENCE

GRADUATE SEMINAR SERIES

The Future of the Connected Car -

Intelligent Transportation Systems Powering Driver-Centric Technology

Speaker: Dr. Allaa Hilal

Date: Thursday December 11, 2014

Time: 4:00 – 5:00 pm

Place: EIT3142, Refreshments will be served

Abstract :

Modern society depends on transportation systems as an integral part of daily activities. According to Statistics Canada, within the “2010 Commuting to Work” report, traffic slowdowns and capacity problems in road systems are serious issues that result in commuters’ dissatisfaction, in addition to delaying deliveries and reducing business productivity. Moreover, traffic congestion contributes to urban smog and pollution that diminish environmental quality and jeopardize public health. Hence, commuting time, as well as road and driver road safety, are important issues that need to be addressed. Intelligent Mechatronic Systems (IMS) is a leader in connected car technology that enables drivers to be safer, smarter and greener. IMS’ unique approach of converging in-car infotainment, automotive telematics and wireless technology has resulted in an impressive range of solutions. From insurance and government, to fleets and everyday drivers, the company’s innovations are pioneering the connected car category and revolutionizing the way people travel.

Join Dr. Allaa Hilal as she discusses the future of the connected car, specifically “Intelligent Transportation Systems Powering Driver-Centric Technology.” Dr. Hilal will shed light on the telematics industry challenges, gaps and needs of the market, as well as interesting research being carried out in IMS.

Dr. Allaa R. Hilal is an R&D Software Developer and member of the innovation and emerging technology team at IMS, a world-renowned expert in connected car technology. She has worked on IMS’ unique, real-time Connected Car Experience, where insights gained from wearable technology, weather and traffic information are transformed into situation-aware knowledge to anticipate driver behaviors and predict expected road conditions. While driving, the DriveSync connected car platform also gives drivers personalized audible coaching when unsafe behaviors are observed; including dangerous speeding, harsh cornering and tailgating, as well as comprehensive usage-based insurance (UBI) updates.