



COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

FLORIDA ATLANTIC UNIVERSITY

Distinguished Lecture Series



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TRAFFIC SIGNAL CONTROL WITH CONNECTED AND AUTONOMOUS VEHICLES IN THE TRAFFIC STREAM

Mon., Dec. 11

1:30 to 2:30 p.m., 777 Glades Road, EE 303

FAU Boca Raton Campus

Videoconferenced to the Dania Beach, SeaTech Campus, ST 250

Abstract

The presentation will discuss on-going work to develop optimization algorithms, simulation tools, and sensor capabilities for enhancing traffic signal control operations when the traffic stream consists of connected vehicles, autonomous vehicles, and conventional vehicles. Early versions of the optimization were deployed and tested at the Traffic Engineering and Research Laboratory (TERL), an FDOT closed-course facility. The results from the field test confirmed the feasibility of the concept and are now used to enhance it for future testing and ultimately for field deployment. The research, led by UF, is funded by NSF and FDOT, and involves two industry partners: ISS and Econolite.

Biography

Dr. Elefteriadou is the Director of the UF Transportation Institute (UFTI), and the Barbara Goldsby Professor of Civil Engineering at the University of Florida. Her research focus is traffic operations, traffic flow theory and simulation. Dr. Elefteriadou has served as the principal investigator for numerous federal and state projects, funded by the US DOT, NCHRP, NSF, PennDOT, and FDOT. She has authored or co-authored more than two hundred publications and reports related to traffic operational quality and highway design, as well as a textbook titled "Introduction to Traffic Flow Theory".

For more information please send email to info@eng.fau.edu.