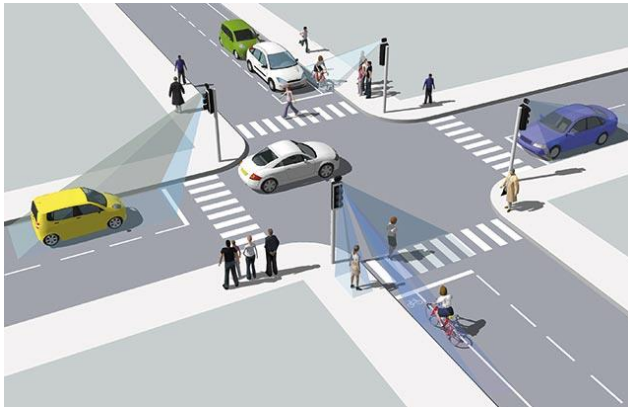**Poziv na predavanje: Dr. Daniela Koltovska Nechoska "Evaluation of Adaptive Traffic Control in a Software-in-the-Loop Simulation Environment"**

Zavod za inteligentne transportne sustave Fakulteta prometnih znanosti, Znanstveno stručna udruga ITS Hrvatska i Hrvatska sekcija IEEE pozivaju Vas na predavanje

"Evaluation of Adaptive Traffic Control in a Software-in-the-Loop Simulation Environment"

koje će održati Dr. Daniela Koltovska Nechoska, profesor sa Sveučilišta Sv. Kliment Ohridski, Makedonija u četvrtak, 1. lipnja 2017. godine u 12:00 sati u Dvorani D5, Objekt 71, Fakulteta prometnih znanosti Sveučilišta u Zagrebu, Kampus Borongaj, Zagreb.
Predavanje je na engleskom/hrvatskom jeziku, a predviđeno trajanje s raspravom je 90 minuta. Predavanje je otvoreno za sve zainteresirane, a posebno pozivamo studente.

Abstract: The apparent state of the art in urban traffic signal control includes a substantial number of sophisticated, complex, and highly developed adaptive systems. They respond to fluctuations in traffic patterns and can reduce traffic congestion, delays and travel time. Systems like SCATS, SCOOT, RHODES, OPAC, PRODYN, RHODES, and UTOPIA (Urban Traffic Optimization by Integrated Automation) are widely used in urban traffic control (UTC) centers. In this lectures, the process of evaluation of the effectiveness of the adaptive control system UTOPIA on a chosen urban traffic network in the city of Skopje is explained. For this evaluation process, a simulation framework was developed to enable a software in the loop simulation of the adaptive traffic control UTOPIA using the microscopic simulator VISSIM. Obtained results are analyzed using chosen performance measures suitable for urban environments like delay, queue length, travel time, intersection level of service and number of stops.

Daniela Koltovska Nechoska is an Assistant Professor at the Department for traffic and transport on the Faculty of Technical Sciences, Sv. Kliment Ohridski University. In 2013 she was appointed as the Head of the Laboratory for Traffic and Transport, Faculty of Technical Sciences. In 2016 she was appointed as the Head of postgraduates studies for Traffic and Transport, Faculty of Technical Sciences. Her research interests are related to ITS, microscopic simulations and intelligent traffic control. As an author and co-author, she has published over forty scientific papers and participated in several international scientific conferences. She participated as a researcher on various national and international projects. Currently, she is participating in the COST action IC1406 High-Performance Modelling and Simulation for Big Data Applications (cHiPSet).