

学术报告会

时 间: 10月21日 (周一) 10:00-11:00

地 点: 密歇根学院454会议室

Connected and automated road vehicles state of the art and future

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Abstract:

The state of the art of modeling, control, and optimization is discussed for automated road vehicles that may utilize wireless vehicle-to-everything (V2X) connectivity. The appropriate tools to address safety and energy efficiency are described, and the effects on traffic dynamics are highlighted. Finally, the economical and societal impacts of the deployment of connected and automated vehicles are discussed.

Biography:

Gábor Orosz received the MSc degree in engineering physics from the Budapest University of Technology, Hungary in 2002 and the PhD degree in engineering mathematics from the University of Bristol, the UK in 2006. He held postdoctoral positions at the University of Exeter, UK and the University of California, Santa Barbara. In 2010 he joined the University of Michigan, Ann Arbor where he is currently an associate professor in mechanical engineering and in civil and environmental engineering. His current research interests include nonlinear dynamics and control, time delay systems, networked systems, and machine learning and their applications on connected and automated vehicles.