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A Bumpy Road to Driverless Cars: Challenges and Opportunities

Presentation Topic

This presentation will cover recent innovations in driverless technologies that can better meet the needs of urban living. The transportation system of the future is anticipated to integrate automation and connectivity of vehicles. Enabled by the growing computational power, ubiquity of sensors, big data, and Artificial Intelligence, cities have new opportunities to be more accessible, energy efficient, cleaner, and supportive of more diverse emerging technologies. Automation can improve traffic congestion and lower vehicle operating costs and wireless connectivity can reduce injuries and deaths in collisions.

Capturing these opportunities will partly depend on overcoming the infrastructure legacy of the past and addressing the resource challenges of the present. However, through careful systems planning, we can harness new opportunities. The presentation will highlight the promise and the challenges/uncertainties inherent in transitioning to a more technologically advanced system. We will briefly introduce connected and automated vehicle technologies, their status, their prospects, and discuss relevant issues.

About the Speaker



Dr. Asad J. Khattak is a Beaman Distinguished Professor of Civil & Environmental Engineering at The University of Tennessee, Knoxville. He serves as the Coordinator for the Transportation Group in the Department, and is Associate Director for the Collaborative Sciences Center for Road Safety—a National University Transportation Center, based at UNC-Chapel Hill.

Dr. Khattak's research focuses on various types of innovations related to intelligent transportation technologies, transportation safety, and sustainable transportation.

Dr. Khattak received his Masters and Ph.D. degrees in Civil Engineering from Northwestern University. He serves as Editor of Science Citation Indexed Journal of Intelligent Transportation Systems, with a 2-year impact factor of 4.277 (for 2020).

Join us via livestream:

October 8, 2021**11:00 AM - 12:00 PM Central Time****Register in advance for this meeting:**<https://go.unl.edu/matcwebinar>

After registering, you will receive a confirmation email containing information about joining the meeting.

