

Enabling Sustainable Travel in Smart and Engaged Communities

Prof. Srinivas Peeta

Thursday, December 7, 2023 4:30 pm (IST)

Join using the meeting link given below

<https://tinyurl.com/TransTech-11>

Registration Link : <https://tinyurl.com/Trans-Tech-11>



ABOUT THE TALK :

Advances in information, communication and sensor technologies are providing communities the potential to collect quantitative and qualitative data and translate them to actionable information and targeted solution mechanisms. Synergistic advances are also illustrating the transformative roles of autonomy, connectivity and electrification. In the transportation context, these advances are also leading to the organic emergence of fundamentally new service modes such as micromobility and transportation network companies. However, the nature of these advances and how they are deployed in communities are typically organic, thereby lacking the deliberate, system-level perspectives to solutions that could enable societal benefits to be realized at their highest potential for the various stakeholder levels of a community. This talk will discuss ongoing work related to developing a systematic framework and associated innovative methods and models to provide formal pathways for communities to achieve their sustainable travel goals. Solutions to achieve sustainability objectives related to enhancing travel mobility, safety, equity, access, and environmental sustainability will be discussed using the City of Peachtree Corners (Georgia, USA) as an immersive living lab. These solutions include quantifiable measures through coordinated control actions in terms of: (i) partnership mechanisms for travel modes, (ii) behavioral interventions, and (iii) public policy interventions.

ABOUT THE SPEAKER :

Prof. Srinivas Peeta is the Frederick R. Dickerson Chair and Professor in the School of Civil and Environmental Engineering and the H. Milton Stewart School of Industrial and Systems Engineering at Georgia Institute of Technology (Georgia Tech). He is also Principal Research Faculty at the Georgia Tech Research Institute. Prior to that, up to 2018, he was the Jack and Kay Hockema Professor in Civil Engineering at Purdue University and the Director of the NEXTRANS Center, formerly the U.S. Department of Transportation's (USDOT's) Federal Region 5 University Transportation Center (2006-2018). He served as Chair (2007-2013) of the Committee on Transportation Network Modeling of the Transportation Research Board (TRB) of the U.S. National Academies. Prof. Peeta serves as associate/area editor for two journals (Transportation Research Part B: Methodological, and Networks and Spatial Economics) and is on the editorial advisory boards of several journals. He has authored over 420 publications in peer-reviewed journals and conference proceedings, and received over \$56 million in research funding. In 2016, he served as transportation expert on behalf of the U.S. Department of State in support of India's Smart Cities mission. Prof. Peeta received his B.Tech., M.S., and Ph.D. degrees from the Indian Institute of Technology (Madras), Caltech, and The University of Texas at Austin, respectively. His research interests are multidisciplinary and span several methodological domains.