

2021 STRIDE Products Showcase – Day 2



Day 2: Advanced Strategies & Technologies for Congestion Mitigation November 17th, 12 PM to 2 PM, ET (virtual)

Michael Hunter, Ph.D., Georgia Institute of Technology (Moderator)

Dr. Hunter is an Associate Professor at the School of Civil and Environmental Engineering at Georgia Institute of Technology. His primary teaching and research interests are in transportation operations and design, specializing in adaptive signal control, traffic simulation, freeway geometric design, and arterial corridor operations. Dr. Hunter obtained his B.S. in Civil Engineering from Rensselaer Polytechnic University (1992), his M.S. in Civil Engineering from the University of Texas at Austin (1994), and his Ph.D. in Civil Engineering from the University of Texas at Austin (2003). After obtaining his M.S. he worked as a transportation engineer for several years at the Sear-Brown Group in Rochester, NY. He has conducted numerous traffic impact studies, signal timing projects, freeway operation evaluations, and toll plaza analyses.



Joseph Hummer, PE, Ph.D., North Carolina Department of Transportation (Panelist)

Joseph E. Hummer, Ph.D., PE, is the State Traffic Management Engineer with the North Carolina DOT (NCDOT) Mobility and Safety Division. He specializes in alternative intersection and interchange designs. He began researching the designs in 1990, has published numerous articles about them, has invented several new designs. Joe spent most of his career as a Professor at North Carolina State University before serving as Chair of Civil Engineering at Wayne State. He returned to North Carolina and joined the NCDOT in 2016 to work on the implementation of new ideas.



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Maria Roell, MCRP, MS, Atlanta Regional Commission

(Panelist)

Maria Roell is a Principle Planner at the Atlanta Regional Commission (ARC) in the Transportation Group. Maria started at ARC as an intern and has been there for 8 years. Currently, her work focuses on operations planning, transportation technology, and transportation equity. Maria holds a Master of City and Regional Planning and a Master of Science in Civil Engineering from Georgia Institute of Technology.



Nasim Uddin, Ph.D., University of Alabama at Birmingham

(STRIDE Researcher/Speaker)

Nasim Uddin, Ph.D., PE, F.ASCE, is a Professor and the Graduate Program Director in the Department of Civil, Construction, and Environmental Engineering at the University of Alabama at Birmingham. Dr. Uddin's research program focuses on fly-by sensing and monitoring of built infrastructures using UAVs and robotics, natural hazard analyses and disaster risk management. He received his Ph.D. degrees in civil engineering from State University of New York (SUNY) at Buffalo, and current NSF projects include Mobile Automated Rovers Fly-By (MARS-FLY) for Bridge Network Resiliency (NSF-CNS-1645863); High Data Density Short Range Wireless Telemetry for Next Generation IoT Applications (NSF-CSR- 1813949), Aerodynamic Intelligent Morphing System (A-IMS) for Autonomous Truck Safety and Productivity in Severe Environments (NSF-S&AS-1849264); Fly-By Image Processing for Real Time Congestion Mitigation (USDOT STRIDE 2018-046).



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Nagui Roupail, Ph.D., North Carolina State University/ITRE (STRIDE Researcher/Speaker)

Nagui M. Roupail, Ph.D., served as Director of the Institute for Transportation Research and Education (ITRE) at North Carolina State University, a post he held from 2001-2016. Roupail also holds the rank of *Distinguished University Professor* in the Department of Civil, Construction, and Environmental Engineering (CCEE) at North Carolina State University, where he served from 1994-2020. He published over 200 refereed journal articles, of which he received 10 best paper awards from TRB, ASCE and ITE (Google citations: 8,141; H Index: 47). Funding for Dr. Roupail research has been awarded from NSF, NCHRP, SHRP-2, FHWA, EPA, NIH, STRIDE at the University of Florida, Maryland National Transportation Center, The Health Effects Institute, ARPA-E @ DOE and the Illinois and North Carolina Departments of Transportation. Roupail previously served as a member of the TRB Highway Capacity and Quality of Service (HCQS) and Chaired the Uninterrupted Flow Group. He was a major research contributor and co-author of several chapters in the HCM 2000, 2010 and the 2016 major updates. Roupail served as Associate Editor for Transportation Science, Transportation Research Part B, Methodological, and the Journal of Intelligent Transportation Systems. He was involved in several international collaborative initiatives.



Pruthvi Manjunatha, Ph.D., University of Florida (STRIDE Researcher/Speaker)

Pruthvi Manjunatha, Ph.D. has 8 years of experience in transportation engineering, which includes teaching, research and working in the industry. His experience has been in Connected and Autonomous Vehicle (CAV) infrastructure, Human Factors and Driver Behavior, Traffic Simulation, Intelligent of Technology. Transportation in the planning and implementation of I-STREET projects. He works with project PIs and industry partners to coordinate software, hardware and application efforts and ensures consistency and interoperability of various components. He develops proposals and works on grants related to the tested development. He also writes project reports, journal articles, and manages data Dr. Pruthvi Manjunatha collection and data analysis efforts.



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Lily Elefteriadou, Ph.D., University of Florida (STRIDE Researcher/Speaker)

Lily Elefteriadou, Ph.D., 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. She is the principal investigator of the US DOT-funded Regional University Transportation Center for Region 4 (Southeast Transportation Research Innovation Development and Education, or STRIDE), which focuses on reducing congestion, and addresses research, education, tech transfer, and workforce development for transportation. Dr. Elefteriadou has served as the principal investigator for several other federal and state projects, funded by the National Cooperative Highway Research Program (NCHRP), the National Science Foundation (NSF), the Federal Highway Administration, 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". She serves on the Editorial Board of the Transportation Research: Part B and is a former Chair of the Transportation Research Board's Highway Capacity and Quality of Service Committee. She is also a past President of the Executive Board of the Council of University Transportation Centers (CUTC).



Angshuman Guin, Ph.D., Georgia Institute of Technology (STRIDE Researcher/Speaker)

Angshuman Guin, Ph.D., is a Senior Research Engineer in the School of Civil and Environmental Engineering at Georgia Tech. Dr. Guin's current research involves traffic operations, traffic simulation and connected and autonomous vehicles, especially the aspects of driver behavior and changes in traffic characteristics during the transition of the vehicle fleet from a zero automation and connectivity state to a fully connected and automated vehicle fleet.



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Mohammed Hadi, Ph.D., Florida International University *(STRIDE Researcher/Speaker)*

Mohammed Hadi, Ph.D., PE, is a Professor at FIU. His experience covers a wide variety of transportation engineering areas with emphasis on transportation system management and operations, Intelligent Transportation Systems (ITS), simulation and DTA, data analytics, performance measurements, planning for operations, and connected vehicles. Dr. Hadi is the chair of the TRB joint simulation subcommittee and a member and the research coordinator of the TRB Traffic Flow Theory and Characteristics Committee. He is a past member of the TRB Highway Capacity and Quality of Service Committee and the TRB ITS committee. He is a member of ITS Florida Board of Director.

