Dear friends and colleagues,

The last few months COVID-19 has dramatically disrupted our lives. From a transportation perspective, travel patterns have changed across the board. Vehicular and transit demand have been significantly reduced, while there have been increases in walking, biking, and home deliveries. How flexible is our infrastructure to accommodate this black swan event? Can our predictive models adapt to this new reality? Are we equipped to address the shifting transportation landscape and the new challenges?

Transit systems, which are essential components of our cities, have been hit hard. At the same time, transit systems carry a significant proportion of essential employees, which keep our communities functioning. Transit operators have made significant adjustments so they can continue to serve the public. For example, Gainesville’s transit system (RTS) is limiting ridership to no more than 20 people, requiring boarding through the back entrance, and disinfecting buses daily. Given these constraints and the changing demand patterns, how can we re-imagine transit systems that can adapt to our changing needs?

To address these and other issues, the UFTI has collaborated with the California Department of Transportation (Caltrans) and other agencies around the country to offer a virtual research symposium on transit. The aim of the symposium is to exchange information on strategies and tools for addressing transit finance, ridership, and leveraging advanced technologies to enhance transit operations.

One sector that has completely changed due to COVID-19 is education. The vast majority of our undergraduate and graduate classes are now offered on-line. The on-line Transportation Operations and Management certificate offered by the UFTI now has expanded course offerings, and includes courses on data analytics and machine learning. Prospective students around the country can take graduate-level courses for credit, and we plan to offer an online Masters in Transportation program soon.

I look forward to hearing from you and working together through the current challenges to make a positive impact on our communities and the transportation network.

Sincerely,

Lily Elefteriadou, Ph.D.
Professor & UFTI Director
RESEARCH GROUP HIGHLIGHTS

AUTONOMOUS & CONNECTED VEHICLES

In the spring of 2020, residents of Gainesville were able to board an autonomous shuttle for test rides between downtown Gainesville and UF Innovate | The Hub. The Gainesville Regional Transit System (RTS) operates the shuttle, which is funded by the Florida Department of Transportation (FDOT). The project is part of the I-STREET real-world testbed, a partnership between the UFTI, the FDOT, and the City of Gainesville. The shuttle operates on a fixed route from 8 a.m. to noon and again between 3 p.m. and 7 p.m. Funding from the FDOT allows passengers to ride free of charge. The UFTI is conducting a study to evaluate traveler experiences and behaviors, and traffic performance.

UF Occupational Therapy researchers Dr. Classen and Dr. Mason are working on a UFTI/STRIDE funded project "UF & UAB's Phase I Demonstration Study: Older Driver Experiences with Autonomous Vehicle Technology". Initial results from the 69 participants involved in the study show that exposure to riding in an automated shuttle or experiencing a simulator in autonomous mode improved older adults' perceptions of automated vehicles (AVs). The researchers' next steps will include testing 40 more participants as well as expanding the study into Phase II (currently underway) to look at perceptions of young and middle-aged adults.

BIG DATA ANALYTICS

UF Big Data focuses on developing smart city traffic management approaches that use fusion of video, LiDAR, loop detectors, and interactions with connected/autonomous vehicles to improve accuracy and timeliness in the detection and tracking of vehicles, pedestrians and bicyclists at traffic intersections and arterials. Using this data, artificial intelligence and machine learning techniques are being developed for real-time incident detection, vehicle classification, space-time trajectories, near-misses and travel-time distributions thereby impacting traffic safety and operations. These techniques are tested in a real-world setting using I-STREET traffic and sensor infrastructure.

UF Civil Engineering professors teamed up with Feld Entertainment to research the impact of oversized motor vehicles on venue floors in an event called Monster Jam. Funded by a grant from Feld, Dr. Bridge and Dr. Ferraro visited Marlins Park, a baseball stadium in Miami, Florida and TIAA Bank Field, a football stadium in Jacksonville, Florida to log and analyze the events taking place. They measured to see whether events are detrimental to venue flooring by evaluating load pressures produced by the vehicles. Vehicles included monster trucks, dump trucks, skid-steer loaders, front-loader washers, excavators, forklifts, and flatbed tractors.

HUMAN FACTORS

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MATERIALS & INFRASTRUCTURE

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SAFETY

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RESILIENCE & SUSTAINABILITY

A project analyzing wildfire evacuation behavior by using data sources from smart phones is currently being conducted by Dr. Xilei Zhao. The project titled “Analyzing Wildfire Evacuation Behavior with GPS Data” was awarded by the National Institute of Science & Technology (NIST). The goals of the project are: 1) analyzing people’s wildfire evacuation behavior using GPS data; 2) investigating the dynamic patterns of wildfire evacuation across key socio-demographic groups; 3) modeling and forecasting wildfire evacuation demand with GPS data; and 4) identifying important factors related to fire spread and the land-use associated with wildfire evacuation demand.
Recent Graduates

**DOCTORAL GRADUATES**

Ala Alobeidyeen  
P.H.D.  
Dissertation: Flow Propagation Models in Transportation Networks

Mariló Martín-Gasulla  
P.H.D.  
Dissertation: Integrating Autonomy and Connectivity to Improve Traffic Operations at Roundabouts

Pedro Adorno Maldonado  
P.H.D.  
Dissertation: The Effects of Emerging Transportation Technologies (Time-To-Green Mobile Apps in Particular) on the Driver’s Behavior and Safety at Signalized Intersections

Marian Ankomah  
P.H.D.  
Dissertation: An Analysis of Transportation Demand Patterns in Ghana

Khajonsak Jermprapai  
P.H.D.  
Dissertation: A Planning-Level Model for Assessing Pedestrian Safety

Aschkan Omidvar  
P.H.D.  
Dissertation: Optimizing Freeway Merge Operations under Conventional and Automated Vehicle Traffic

Abraham Yarney  
P.H.D.  
Dissertation: Understanding Older-Driver Safety Based on Crashes, Near-Crashes, and Traffic

**MASTER’S GRADUATES**

Xi Duan, M.S.  
Prashant Singh, M.S.  
Ning Wang, M.S.  
Yi Zhang, M.S.

Islam Ahsanul, M.S.

Mengjie Han, M.S.

Shuaizhou Hu, M.S.

UFTI/STRIDE Assists with Establishing Internship Program for Women at UF

The first-ever Women in Transportation Initiative (WITI) Internship Program was established at UF during the Spring 2020 semester with the assistance of the STRIDE Center. WITI is a flagship program of the USDOT Office of Small Business (OSDBU) focused on encouraging young women to pursue careers in the transportation industry. This year’s experiential learning program was conducted in collaboration with the Women of Asphalt (WofA), the UF Transportation Engineering and Planning (TOP) Certificate Program, and the Women’s Engineering and Science (WES) program.

Participants can select three of the following courses:

- Traffic Flow Theory
- Traffic Engineering
- Freeway Operations and Simulation
- Highway Safety Analysis
- Advanced Transportation Systems Analysis
- Advanced Urban Transportation Planning
- Transportation Policy and Planning
- Special Problems in Civil Engineering
- Advanced Urban Transportation Planning
- Transportation Data Analytics
- Machine Learning for Transportation Applications
- Highway Design

Transportation Operations and Planning Certificate Program

The Transportation Operations and Planning (TOP) Certificate Program has been established for transportation professionals with interests in transportation systems management, operations, and transportation planning. This is a 9-credit program, taught by faculty in the Department of Civil & Coastal Engineering and in the Department of Urban & Regional Planning who are affiliated with the UF Transportation Institute. The program is administered through the Department of Civil & Coastal Engineering (CCE) Department which is housed in the Engineering School of Sustainable Infrastructure & Environment (ESSIE). All courses are taught at the University of Florida campus and through the Electronic Delivery of Gator Engineering (EDGE) program.

More information can be found by scanning the QR code.
AWARDS

The UF Women’s Transportation Seminar (WTS) Florida Gator student chapter hosted its signature event – the Annual Transportation Symposium – during the Fall 2019 semester. Now in its 10th year, the symposium focused on the “Role of Transportation in Affecting Climate Change”. Presenters discussed how transportation professionals, planners, and other strategists are looking at transportation and climate change issues. In spring 2020, the chapter’s executive board members traveled to Washington, D.C. for the 99th Annual Meeting of the Transportation Research Board. The students attended the WTS International Reception where they networked with transportation professionals at different levels.

STUDENT AWARDS

Ala Aloibeidyen, Ph.D.
UF International Center Diane Fisher Scholarship and the Student Achievement Certificate of Excellence

GatorITE Student Chapter

Best Student Chapter, Florida/Puerto Rico District (second consecutive year)

Tia Lubbers (Undergraduate Student)
Transoft Solutions Scholarship for Undergraduate Students in Transportation

Jeanine Marrou (Undergraduate Student)
Transoft Solutions Scholarship for Undergraduate Students in Transportation

Marlè Martin-Gasulla, Ph.D.
Frankhee Hellinger Graduate Leaders Scholarship

WTS Central Florida Chapter

Aschian Omidvar, Ph.D.
UF International Center Student Achievement Diane Fisher Scholarship

Dr. Uli Du secured approval in Spring 2020 from the American Society of Civil Engineers (ASCE) to create an Artificial Intelligence Task Committee.

Dr. Lily Elefteriadou traveled in August 2019 to the University of São Paulo, Brazil to present an overview of the I-STREET testbed and some of her NSF-funded work. In May 2020, she participated in webinars hosted by FDOT M-CORES to present I-STREET research on advanced transportation technologies with the potential to improve mobility and safety. At the end of April 2020, PAVE announced the launch of its Academic Advisory Board which includes Dr. Elefteriadou among its distinguished members.

Dr. Sanjay Ranka presented six papers at the 6th International Conference on Vehicle Technology & Intelligent Transport Systems (VEHITS 2020) in May 2020. He was also the keynote speaker at the Third International Workshop on Intelligent Transportation & Connected Vehicles Technologies (ITCVT 2020).

UF International Center Student Achievement

Corbin Kramer, Siddhartha Gulhare, Thutha Nguyen Lyew (Florida Puerto Rico ITE President), Asean Davis, and Ehsan Amini (GatorITE Chapter Officers: Megan Vois, Siddhartha Gulhare, Akhilesh Moreshwar Shastri, Juan Guifrema Stachuk, Carvalho, Asaan Davis, Ehsan Amini, Fabio Sasahara, and Corbin Kramer with Faculty Advisor Dr. Siva Srinivasan)

FACULTY RECOGNITION & ENGAGEMENTS

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New Faces

External Advisory Board

Justin Dennis
Co-Founder, UrbanSDK

Beth Kigel
Vice President, ITS & Emerging Mobility Solutions, HNTB Corporation

Kevin Thibault
Secretary, Florida Department of Transportation

Faculty Affiliates

Abolfazl Safikhani, Ph.D.
Assistant Professor, Department of Statistics

Rui Guo, Ph.D.
Lecturer, Department of Engineering Education

Yujie Hu, Ph.D.
Assistant Professor, Department of Geography

Xilei Zhao, Ph.D.
Assistant Professor, Department of Civil & Coastal Engineering

Jasmine McNealy, Ph.D.
Associate Professor, Department of Telecommunication

Pruthvi Manjunatha, Ph.D.
Coordinator, I-STREET

Internal Advisory Board Members

Researchers & Other Staff

Nithin Agarwal, Ph.D.
Director, UFTI-T2 Center

Behzad Aghdashi, Ph.D.
Director, McTrans Center

Karla Rodrigues-Silva, Ph.D.
Post-Doctoral Associate

Caroline Duke, M.A.
Contributor

BY THE NUMBERS

UFTI by the Numbers

- **$8.9 M**
  - Annual Research Expenditures

- **$1.7 M**
  - UFTI-T2 & McTrans Center Revenue

- **149**
  - Publications & Presentations

- **206**
  - Active Research Projects

- **101**
  - Courses
    - T2 & McTrans Center

- **1487**
  - Participants
    - T2 & McTrans Center

- **131**
  - Affiliated Faculty

- **1487**
  - UFTI-Affiliated Students & Staff

- **80 & 22**
  - T2 & McTrans Center
Core Centers

Center for Applied Optimization
The Center for Applied Optimization at the University of Florida is an interdisciplinary center which encourages joint research and applied projects among faculty from engineering, mathematics and business. (Co-Directors: Dr. Panos Pardalos, Department of Industrial & Systems Engineering; and Dr. William Hager, Department of Mathematics)

Center for Health & the Built Environment
The Center for Health & the Built Environment is a research center focused on teaching, research, and service to address the relationship of the built environment to health outcomes with special attention to vulnerable populations. (Director: Dr. Ruth Steiner, Professor, Department of Urban & Regional Planning)

Efficient Transportation Decision Making (ETDM)
ETDM process incorporates environmental considerations into transportation planning to inform project delivery. (Director: Dr. Alexis Thomas, Department of Urban & Regional Planning)

Florida Traffic & Bicycle Safety Education Program (FTBSEP)
FTBSEP employs the diverse skills of a Regional Training Team composed of teachers and other professionals around the state to encourage walking and bicycling as healthy and environmentally responsible transportation choices. (Program Director: Dr. Dan Connaughton, Professor, Department of Sport Management)

Geo-Facilities Planning & Information Research Center (GeoPlan Center)
The UF GeoPlan Center works to support land use, transportation, and environmental planning in the State of Florida by providing geospatial and planning expertise, data, training and education to the stakeholders involved in the planning process. The center is housed in the Department of Urban & Regional Planning. (Director: Dr. Alexis Thomas, Department of Urban & Regional Planning; Associate Director: Dr. Ilir Bajleri, Department of Urban & Regional Planning)

University of Florida’s Institute for Mobility, Activity, & Participation (I-MAP)
I-MAP focuses on mobility and transportation through a person’s lifespan. Mobility and transportation enable activity, facilitate participation in society, promote access to goods and services, and enhances quality of life. (Director: Dr. Sherrilene Classen, Professor and Chair, Department of Occupational Therapy)

Supply Chain & Logistics Engineering Center
The Supply Chain & Logistics Engineering Center at the University of Florida is an interdisciplinary center that encourages joint research and applied projects among faculty from Engineering, Computer Science, and Business Administration in conjunction with industry participants. (Co-Directors: Dr. Elif Akcali, Department of Industrial & Systems Engineering; and Dr. Yongpei Guan, Department of Industrial & Systems Engineering)

Affiliated Centers

T2 provides training, technical assistance, technology transfer services and safety information to transportation, public works and safety professionals as well as the general public.

MCTRANS
McTrans center develops and shares traffic engineering software and dashboards. Their best seller software is the HCS (Highway Capacity Software). McTrans develops and distributes cutting edge software for transportation applications.

STRIDE
The Southeastern Transportation Research, Innovation, Development, and Education (STRIDE) Center is the 2016 USDOT grant-funded, regional (Southeast) University Transportation Center (UTC) headquartered at the University of Florida Transportation Institute that, along with nine other partners, conducts research and offers educational and technology transfer programs related to reducing congestion.

UFTI-T2
UFTI-T2

Geo-Facilities Planning & Information Research Center (GeoPlan Center)
Workforce Development

Through the UFTI-T2 Training Program, more than 1,100 front-line workers participated in 86 courses, many of which brought workers into the transportation workforce for the first time. In spring 2020, the UFTI-T2 training program faced a complex challenge to respond to the pandemic. Nevertheless, virtual learning designed by UFTI-T2 launched smoothly with the aid of FDOT and UF resources. Our students were enthusiastic about the change, including the added flexibility and convenience.

Program Support

Through an FDOT grant, the Transportation Safety Center (TSC) housed at UFTI-T2 supported Columbia and Jackson counties in developing their local road safety plans. The team developed and applied innovative safety analysis methods and ranked safety interventions most likely to reduce the deadliest crashes. The project has been extended to six more rural Florida counties. UFTI-T2 is working on a STRIDE project synthesizing congestion mitigation strategies for rural and small urban areas. Though often associated with larger cities, small cities and rural areas also experience congestion, often with fewer resources to assess or resolve the issue. This effort is valuable to Florida’s less populated areas.

To assist transit operators, UFTI-T2 partnered with Gainesville’s Regional Transit System to install advanced driver assistance systems (ADAS) on ten local buses. Drivers were interviewed about the usefulness of the system, and the ADAS provided data to document interactions with bicycles and pedestrians. UFTI-T2 continues to manage the FDOT’s PedBike Safety Resource Center (PedBike) and the Occupant Protection Resource Center (OPRC), which primarily supports pedestrian, bicycling, and child passenger safety events across Florida and participated in Florida safety coalitions that guide these events. COVID-19 canceled many events, but workers found creative and safe ways to deliver the safety message, helmets, and car seats. As a result, many thousands of helmets were distributed and fitted by trained technicians and hundreds of parents received child safety seats and were trained on their proper installation. Work also continued with Safe Routes to Schools, a national voluntary initiative to make walking or biking to school safer for children.

During this past year, the previous director of McTrans, Bill Sampson, retired in March 2020, and Dr. Behzad Aghdashi started his work as the new director of the center. The novel coronavirus also impacted the McTrans center's operation by not offering in-person classes. As a result, McTrans held their training offerings in the form of webinars. To support the users of the various McTrans products, the center decided to provide free Highway Capacity Software (HCS) licenses to all students within universities worldwide, which enabled their academic institutions have active HCS license subscriptions. This has allowed students to install HCS software on their laptops and to continue pursuing their education in the field of transportation engineering.

During this year, McTrans instructors have taught a total of 15 courses related to their traffic analysis software with a total of 315 participants engaging in those courses. McTrans offers courses via an online format or in-person training.

In the 2019-2020 fiscal year, McTrans developed a strategic plan that outlines the center’s mid-term and long-term objectives and goals. Per one of this strategic plan’s primary objectives, McTrans started investing more in the collaborative work with external entities (e.g., private firms and governmental organizations) to better serve the community and transportation engineering world.
External Advisory Board

Vassil Alexiadis
Executive Vice President
Cambridge Systematics, Inc.

Chimney Anumba
Professor & Dean, UF
College of Design, Construction, & Planning

Ron Bismarck
International Transportation Research Advisor

Martha Anderson Bomar
Assistant General Manager for Capital Program Delivery, MARTA

Alex Bond
Transportation Policy Analyst, USDOT/Office of the Secretary

Ann Brach
Director, Transportation Research Board, Technical Activities Division

Tom Byron
Retired, Assistant Secretary of Intermodal Systems Development/FDOT

Milton Carrasco
President & CEO, Transoft Solutions, Inc.

Grady Carrick
Principal, Enforcement Engineering, Inc.

Amanda Day
President, Day Communications

Justin Dennis
Co-Founder, Urban SDK

Laura Kelly
Executive Director, Central Florida Expressway Authority

Beth Kigel
Vice President, ITS Emerging Mobility Solutions, HNTB

Malisa McCreedy
Director of Mobility City of Gainesville, Fla.

Internal Steering Committee

Nithin Agarwal, Ph.D.
Director, UFTI-T2 Center

Behzad Aghdashi, Ph.D.
Director, McTrans Center

Jennifer Bridge, Ph.D.
Associate Professor
Department of Civil & Coastal Engineering

Caral Crane, Ph.D.
Professor
Department of Mechanical & Aerospace Engineering

Lili Du, Ph.D.
Associate Professor
Department of Civil & Coastal Engineering

Lily Elefteriadou, Ph.D.
Director, UFTI & STRIDE

Eahta Jain, Ph.D.
Assistant Professor
Department of Computer & Information Science & Engineering

Sanjay Ranka, Ph.D.
Professor
Department of Computer & Information Science & Engineering

Stephen S Papa
Ph.D. Student
Department of Civil & Coastal Engineering

Siva Srinivasan, Ph.D.
Associate Professor
Department of Civil & Coastal Engineering

Ruth Steiner, Ph.D.
Professor
Department of Urban & Regional Planning

Staff

Ines, Aviles-Spadoni, M.S.
Coordinator of Research Programs, STRIDE Center

Caroline Duke, M.A.
Contributor

Amy Fu, B.S.
Student Assistant, STRIDE Center

Jennifer Gomez
Admin Assistant I

Donna Moss
Grants Administrator, Department of Civil & Coastal Engineering

Ondine Wells, M.S.
K-12 & Technology Transfer Coordinator, STRIDE Center
SELECTED PROJECTS

Dynamic Intersection Learning Machine Optimization Real-time Engine, FDOT Dr. Nithin Agarwal

UTF Testbed Initiative Alternative Transportation Safety Systems, FDOT Dr. Nithin Agarwal

Florida’s Occupant Protection Resource Center FDOT, Dr. Nithin Agarwal

Florida’s Pedestrian & Bicycle Safety Resource Center, FDOT Safety Office Dr. Nithin Agarwal

Machine Learning Algorithms for Improved Network Traffic Signal Optimization & Operational Improvement, FDOT, Dr. Aneel Parikh

Florida ATM Pilot Demonstration & Evaluation FDOT, Dr. Nithin Agarwal

Expanding Accessibility, Utilization & Data Integration of Signal Four Analytics, FDOT Dr. Niji Bejleri

Unified & Sustainable Solution to Improve Geo-Locational Tracking & Efficiency of Critical Assets,| FDOT & Counties Safety Office Dr. Niji Bejleri

Crash Geospatial Database Update Analysis & Modeling, Metropolitan Orlando, Dr. Niji Bejleri

Applying Gap Modeling to Improve Traffic Signal Timing and Optimization for Vulnerable Populations at the Local & Regional Levels, FDOT, Dr. Niji Bejleri

Applying Gap Modeling to Improve Transportation Services for Timely, Dynamic, & Spatially Accurate Roadway Incident Information to Support Real-Time Management of Traffic Operations, FDOT, Dr. Niji Bejleri

Transportation Mobility Assessment & Recommendations for Smart City Planning FDOT, Dr. Niji Bejleri

Geolocation-Based Crash Diagnosing & FDOT Crash Data Management to Improve Crash CAREER: Integrated Online Coordinated Region-Based Automationized Connected Vehicle Systems, NSF, Dr. Lily Elefteriadou

Monitor Jam Load Study, FELD Entertainments, Dr. Dennis Hiltunen

UF & UB’s Phase I Demonstration Study: Older Driver Experiences with Autonomous Vehicles in a Florida Test Environment, FDOT, Dr. Lily Elefteriadou

Aging Road User Information System 2019-2020, FDOT Safety Office Dr. Lily Elefteriadou

Teen Distracted Driving Education Program, FDOT Safety Office, Dr. Lily Elefteriadou

Perceptions of Individuals with Living with Spinal Cord Injury toward Autonomous Vehicles, Paralyzed Veterans of America, Dr. Lily Elefteriadou

Transportation Mobility Assessment & Recommendations for Smart City Planning FDOT, Dr. Lily Elefteriadou

Improving Parametric Driver Fitness & Community Mobility: Effects of a One-Day Driving & Community Mobility Approach for Rural Settings, US Department of Veterans Affairs, Gainesville Medical Center Dr. Lily Elefteriadou

UF & UB’s Phase 2 Demonstration Study: Developing a Model to Support Transportation System Decisions, Considering the Experiences of Drivers of all Age Groups with Autonomous Vehicles Technology, FDOT Safety Center/USDOT Dr. Lily Elefteriadou

Building Information Modeling (BIM) for Bridges & Structures, HDR Engineering Dr. Aaron Costin

Traffic Signal Control with Connected & Autonomous Vehicles in the Traffic Stream NSF, Dr. Carl Crane

Extended Development & Testing of Optimized Signal Control with Autonomous & Connected Vehicles, FDOT, Dr. Carl Crane

Big Data Analytics & Artificial Intelligence for Smart Intersections, FDOT, Dr. Lily Elefteriadou

Coordinated Real-Time Traffic Management Based on Dynamic Information Propagation & Aggregation under Connected Vehicle Systems NSF, Dr. Lily Elefteriadou

Discovering Potential Market for the Integration of Public Transportation & Emerging Shared-Mobility Services, STRIDE Center/USDOT, Dr. Lily Elefteriadou

Smart Energy & Phasing built upon Real-Time Learning & Distributed Optimization NSF, Dr. Lily Elefteriadou

Before & After Implementation Studies of Advanced Transportation Technologies in Florida FDOT, Dr. Lily Elefteriadou

Traffic Signal Control with Connected & Autonomous Vehicles in the Traffic Stream Dr. Lily Elefteriadou

Evaluation of Arterial Corridor Improvements & Traffic Management Plans in Florida, FDOT, Dr. Lily Elefteriadou

Highway Capacity Manual Methodologies for Corridors Involving Freeways & Surface Streets, National Academies of Sciences Dr. Lily Elefteriadou

Southeastern Transportation, Research, Innovation, Development, & Education Center USDOT UTC Grant, Dr. Lily Elefteriadou

Evaluation of Advanced Vehicle & Traffic Management Technologies through Traffic Microsimulation, STRIDE Center/ FDOT, Dr. Lily Elefteriadou

Extended Development & Testing of Optimized Signal Control with Autonomous & Connected Vehicles, FDOT, Dr. Lily Elefteriadou

Video Based Machine Learning for Smart Traffic Management & Analytics, NSF Dr. Lily Elefteriadou

Transportation Mobility Assessment & Recommendations for Smart City Planning FDOT, Dr. Lily Elefteriadou

Video & Weigh-In Motion (WIM) Safety Technology FDOT, Dr. Anand Rangarajan

Data Management & Analytics for UF Smart Traffic Testbed, FDOT, Dr. Sanjay Ranka

Traffic signal optimization for Florida Traffic Signal Plan Update, FDOT, Dr. Sanjay Ranka

FDOT, Dr. Kyle Riding

Infrastructure Initiative Evaluation of Intelligent School Zone Beacon & Vehicle: Cyclist Detection & Warning System, FDOT Dr. Ekta Raje

Designing In-Vehicle Message Delivery with Manual & Automated Driving, North Carolina State University Dr. David Kaber

Roadway Signaging & Marking of Unconventional Corridors Segments at Intermediate Design Intersections, North Carolina State University, Dr. David Kaber

Design Consistency on Corridors, North Carolina State University Dr. David Kaber

HCS Consulting Services for Smart Transportation Research Center, Vishal Khanapure

Life Cycle Costs & Benefits Analysis of Freight Transportation Projects, FDOT Dr. Zong-Ren Peng

Evaluating the Effectiveness & Funding Mechanism of the Ridesharing Service Downstream in Tampa, Florida, FDOT Dr. Zong-Ren Peng

Evaluating the Connection between Transit & TRNS (Transportation Network Companies) in Pinellas County for Statewide Application, FDOT Dr. Zong-Ren Peng

Track Taxonomy & Classification using Video & Weigh-In Motion (WIM) Safety Technology FDOT, Dr. Anand Rangarajan

Assessment of Planning Risks & Alternative Futures for the Florida Transportation Plan Update, FDOT, Dr. Kyle Riding

Traffic-event Unification System Highlighting Arterial Roads, FDOT Dr. Sanjay Ranka

Machine Learning Algorithms for Demand & Turning Movement Count Prediction, FDOT, Dr. Sanjay Ranka

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In-service Assessment of Road Sinkholes with 20 Ambient Noise Tomography FDOT Dr. Mang Tia


Research, Design, Professional Services, & Implementation of Research for the FDOT Structural Materials Laboratory, FDOT, Dr. Mang Tia

Interchange Design to Accommodate Rand McNally System, FDOT, Dr. Scott Srinivasan

Commercial Heavy Vehicle Impacts on Transportation Authority, Jacksonville, Jacksonville Transportation Authority, Dr. Ruth Steiner

Development of Florida Traffic Characterization for Service Volume Calculations Based on the Latest HCMFL, FDOT, Dr. Scott Srinivasan

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