5th Annual UTC Conference for the Southeastern Region

November 16-17, 2017

J. Wayne Reitz Union
University of Florida Campus

Sponsored by:
The University of Florida Transportation Institute (UFTI) and the Southeastern Transportation Research, Innovation, Development, & Education (STRIDE) Center are pleased to host the 5th annual UTC Conference for the Southeastern Region. This event brings together faculty, students, staff, practitioners, and public officials the Southeastern U.S. to disseminate information about ongoing activities at partner universities and to foster collaboration within the academic community and the private and public sector agencies in the region.

This two-day event features keynote speakers, various paper and poster presentations, a state DOT panel, a WTS and ITE student session, and an AV/CV demonstration. The conference also includes a student poster and paper competition for 1st, 2nd and 3rd place awards worth $500, $250 and $100, respectively.

In 2013, the STRIDE Center conceptualized and hosted the first conference of its kind in Orlando, Fla. Other universities, which have hosted a UTC Conference for the Southeastern Region, include: the National Center for Transportation Systems Productivity and Management (NCTSPM), Georgia Institute of Technology, 2014; the Department of Civil, Construction & Environmental Engineering, University of Alabama at Birmingham, 2015; and in 2016, the Southeastern Transportation Center (STC), University of Tennessee, Knoxville.

We would like to thank the conference sponsors. Your generosity has demonstrated a strong commitment to all aspects of transportation research. We would also like to thank the keynote speakers, panelists, conference presenters and poster participants, including the many students who volunteered for making this conference a success.
6:30 am  
**Shuttle Pickup from hotels**  
(Begins at 6:30 am, running until 9:00 am, drop off Reitz Union circular drive)

7:00 am to 8:00 am  
**Continental Breakfast**  
(Rion Ballroom, 3rd Level)

8:00 am to 8:15 am  
**Welcome & Opening Remarks**  
Dr. Lily Elefteriadou, Professor & Director  
University of Florida Transportation Center (UFTI)  
(Rion Ballroom, 3rd Level)

8:15 am to 8:45 am  
**Keynote Address**  
Tom Byron, P.E., Assistant Secretary, Florida Department of Transportation  
(Rion Ballroom, 3rd Level)

8:45 am to 9:30 am  
**Introduction of Sponsoring Transportation Centers**  
(Rion Ballroom, 3rd Level)

9:30 am to 10:00 am  
**Morning Break & Student Poster Exhibit**  
(Rion Ballroom, 3rd Level)

10:00 am to 11:30 am  
**Presentations by Faculty & Graduate Students**

**Session 1A - Infrastructure (2365)**  
Moderator: Armin Mehrabi, Ph.D., Florida Atlantic University  
*(Each presentation including Q&A is 20 min)*

- **Can We Make Constructible, Durable & Sustainable Infrastructure with Alternative Cementitious Materials?**  
  Prasanth Alapati, Georgia Institute of Technology  
  (Master’s student)

- **The Use of Smart Portable Sensor for Structural Bridge Monitoring**  
  Ahmed El Hattab, University of Alabama at Birmingham  
  (Ph.D. student)

- **Quality Acceptance Approaches Used by State DOTs in Design-Build Highway Projects**  
  Jung Hyun Lee, Georgia Institute of Technology  
  (Master’s student)

- **Evaluating the Performance of Guardrail Posts Driven through Asphalt Vegetation Barriers**  
  David Scott, Ph.D., Georgia Institute of Technology
Session 1B - Operations (3315)
Moderator: Mike Hunter, Ph.D., Georgia Institute of Technology
(Each presentation including Q&A is 20 min)

A Mixed Traffic Capacity Analysis & Lane Management Model for Connected Automated Vehicles: A Markov Chain Method
Amir Ghiasi, University of South Florida (Ph.D. student)

Bringing Order to Chaos: The Growing Role of Variable Speed Limit & Proactive Traffic Management Solutions
Robert Bertini, Ph.D., University of South Florida

Development of Statistical Models for Prediction of Various Driving Performance Indicators under Emergency Evacuation
Maxim Dulebenet, Ph.D., Florida A&M – Florida State University

A Methodology to Assess the Quality of Travel Time Estimation Based on Connected Vehicle Data
Iqbal MD Shahadat, Florida International University (Ph.D. student)

Session 1C – Safety (3320)
Moderator: Nithin Agarwal, Ph.D., University of Florida
(Each presentation including Q&A is 20 min)

Integrating “Safe Systems” into Land Use Planning: Examining the Role of Land Use Codes & Development Regulations on the Incidence & Severity of Traffic-Related Death & Injury
Eric Dumbaugh, Ph.D., Florida Atlantic University

Newer Model Years are Associated with Reduced Risk of Motor Vehicle Crash Fatalities among Older Drivers
Bernadette Fausto, University of South Florida (Ph.D. student)

Safety Evaluation of Roundabouts in Georgia
Franklin Gbologah, Ph.D., Georgia Institute of Technology

Transportation Safety Evaluation using Data Envelopment Analysis: A Case Study of Miami, Florida
Zongni Gu, University of Florida (Ph.D. student)

Session 1D – Aviation & Energy (2315)
Moderator: Maranda McBride, Ph.D., North Carolina A&T State University
(Each presentation including Q&A is 20 min)

Effect of Exit Doors & Number of Passengers on Airport Evacuation Efficiency using Simulation
Jie Chen, Embry-Riddle Aeronautical University
Unmanned Aircraft Systems (UAS) Integration in Airport Runway Inspection Task Environments
Sungjin Kim, Georgia Institute of Technology (Ph.D. student)

Pedestrian Movement & Infectious Disease Spread during Air Transportation: A Multiscale Modeling Approach
Sirish Namilae, Ph.D., Embry-Riddle Aeronautical University

Electric Vehicle Sharing Based “Energy Sponge” Service Interfacing Transportation & Power Supply
Dongfang Zhao, University of South Florida (Ph.D. student)

11:30 am to 1:00 pm

Lunch & Student Poster Exhibit
(Rion Ballroom, 3rd Level)

Students at their posters between 12:30 pm and 1:00 pm
(Rion Ballroom, 3rd Level)

1:00 pm to 2:30 pm

Presentations by Faculty & Graduate Students

Session 2A - Infrastructure (2365)
Moderator: John Sobanjo, Ph.D., Florida State University-FAMU
(Each presentation including Q&A is 20 min)

Internally Cured Concrete for Pavement & Bridge Deck Applications
Thanachart Subgranon, University of Florida (Ph.D. student)

Where are the Curves? GIS Methodology for Automatic Detection of Roadway Curves
Xingjing Xu, University of Florida (Ph.D. student)

Empirical Modeling of Cost Variation in Highway Construction Projects
Minsoo Baek, Georgia Institute of Technology (Ph.D. student)

Pavement Distress Data Collection using Sensor-Mounted Connected Vehicles
Jinwoo Jang, Ph.D., Florida Atlantic University

Session 2B – Operations (3315)
Moderator: Robert Bertini, Ph.D., University of South Florida/CUTR
(Each presentation including Q&A is 20 min)

Identification of the Recurrent Freeway Bottlenecks of Pacific Coastal Areas in California by Travel Time Reliability Analysis
Lei Bu, Jackson State University
(Ph.D. student)

Atlanta Smart City Initiative - Corridor & Special Event Application
Mike Hunter, Ph.D., Georgia Institute of Technology

Understanding the Relationship between Traffic Flow & Performance at Work Zones
Ossama Ramadan, Ph.D., University of Alabama at Birmingham

Methodology to Identify On-Ramps for Metering with Consideration of System-Wide Recurrent & Non-Recurrent Congestion
Homa Fartash, Florida International University
(Ph.D. student)

Session 2C – Safety (3320)
Moderator: Maranda McBride, North Carolina A&T State University
(Each presentation including Q&A is 20 min)

Analysis of Work Zone Crash Reports to Determine Factors Associated with Crash Severity
Nick Jehn, Auburn University
(Master’s student)

Cost-Sensitive Instance-Based Data Mining Method to Predict Driver Injury Severity Considering the Influence of Driver Age & Gender
Somayeh Mafi, Florida State University
(Ph.D. student)

The Impact of Stress & Sleep on Driving Safety in Medical Residents
Benjamin McManus, University of Alabama at Birmingham
(Ph.D. student)

Exploring the Scope for Spatial & Temporal Transferability of Bicycle Crash Modification Factors
Md Asif Raihan, Florida International University
(Ph.D. student)

2:30 pm to 4:00 pm

Afternoon Break & Student Poster Exhibit
(Rion Ballroom, 3rd Level)

Students at their posters between 2:30 pm and 3:00 pm
(Rion Ballroom, 3rd Level)

AV/CV Demo
(Shuttle buses depart Reitz Union circular drive starting at 2:30 pm to Old RTS site, 100 SE 10th Avenue, return to Reitz Union by 3:50 pm)
4:00 pm to 5:30 pm  

**Breakout Sessions**

**Session 1: ITE & WTS Student Chapters**  
Activity: “Discover Your Leadership Style” (Room 3315)

**Session 2: State DOT Panel (Room 2365)**  
Darryll Dockstader, Florida DOT  
David Jared, Georgia DOT  
John Kirby, North Carolina DOT  
Michelle Owens, Alabama DOT  
Terry Swygert, South Carolina DOT

5:30 pm to 7:30 pm  

**Reception**  
(Poster Competition Winners Announced)  
(Rion Ballroom, 3rd Level, shuttle departs for hotels, Reitz Union circular drive, running until 8:30 pm)

Friday, Nov. 17, 2017

6:30 am  

**Shuttle Pickup from hotels**  
(Begins at 6:30 am, running until 9:00 am, drop off Reitz Union circular drive)

7:00 am to 8:00 am  

**Breakfast**  
(Rion Ballroom, 3rd Level)

8:00 am to 8:45 am  

**Keynote Address**  
Introduction by Dr. Lily Elefteriadou, UFTI/STRIDE Director  
**Speaker:** Dr. Kevin Womack, Director, Office of Research, Development & Technology, Office of the Assistant Secretary for Research & Technology, U.S. Department of Transportation  
(Rion Ballroom, Level 3)

8:45 am to 10:15 am  

**Presentations by Faculty & Graduate Students**

**Session 3A – Multimodal (2365)**  
Moderator: Maranda McBride, Ph.D., North Carolina A&T State University  
*(Each presentation including Q&A is 20 min)*

**Modeling the Fundamental Diagram of Pedestrian Motion using Social Force Approach**  
Pierrot Derjany, Embry-Riddle Aeronautical University  
(Ph.D. student)

**Smartphone GPS Data Sources for Cyclist Travel Behavior**  
Kari Watkins, Ph.D., Georgia Institute of Technology
Identifying Deficiencies in Alternative Transportation Services for Transportation Disadvantaged Populations
Soowoong Noh, Ph.D., University of Florida

Vulnerable Road User Mobility Assistance Platform (VRU-MAP)
Justin Owens, Ph.D., Virginia Tech Transportation Institute

Session 3B – Operations (3315)
Moderator: Clark Letter, Ph.D., University of Florida
(Each presentation including Q&A is 20 min)

Monte Carlo Simulation-Based Benefit-Cost Analysis Combined with Analytical Hierarchy Process to Support ITS Investment with Consideration of Connected Vehicle Technology
Samaneh Khazraeian, Florida International University (Ph.D. student)

Using 3D Parametric Modeling to Understand the Future Growth of Cities: Simulating 3D Infill Allocation in the City of Tampa
Leilei Duan, University of Florida (Ph.D. student)

Modelling Vehicle Conversion to CNG Driven Vehicles using Mixed Logit & Latent Class Logit Model: A Case Study in Dhaka, Bangladesh
Shakhawat Tanim, University of South Florida (Ph.D. student)

Autonomous Vehicles: An Empirical Assessment of Consumers’ Perceptions, Intended Adoption, & Impacts on Household Vehicle Ownership
Nikhil Menon, University of South Florida (Ph.D. student)

Session 3C – Safety & Traveler Issues (3320)
Moderator: Eric Dumbaugh, Ph.D., Florida Atlantic University
(Each presentation including Q&A is 20 min)

How Driving Volatility in Time to Collision Relates to Crash Severity in a Naturalistic Driving Environment
Behram Wali, University of Tennessee (Ph.D. student)

In-Depth Investigation of Wrong-Way Crashes on Divided Highways in Alabama using Haddon Matrix & Field Observations
Jin Wang, Auburn University (Ph.D. student)

The Effects of Neighborhood Characteristics & the Built Environment on Pedestrian Injury Severity: A Random Parameters Generalized Ordered Probability Model with Heterogeneity in Means & Variances
Chunfu Xin, University of South Florida (Ph.D. student)
An Exploratory Analysis of User Compliance with Route Guidance
Fabio Sasahara, University of Florida
(Ph.D. student)

Session 3D – Transit (2360)
Moderator: Evangelos Kaisar, Ph.D., Florida Atlantic University
(Each presentation including Q&A is 20 min)

Closing the Loop - Improving Transit through Crowdsourced Information
Sean Barbeau, Ph.D., University of South Florida

The Collaborative Role of Transit Agencies in the Provision of Bicycle & Pedestrian Street Improvements
Sara Hendricks, Ph.D., University of South Florida

Open Transit Data 2.0 – A Discussion of the New GTFS Best Practices & GTFS-realtime Validation Tool
Sean Barbeau, Ph.D., University of South Florida

10:15 am to 10:30 am
Morning Break
(Rion Ballroom, 3rd Level)

10:30 am to 12:00 pm
Presentations by Faculty & Graduate Students

Session 4A – Planning (2365)
Moderator: Noreen McDonald, Ph.D., University of North Carolina at Chapel Hill
(Each presentation including Q&A is 20 min)

Evaluating Scalability of Big-Data GIS Systems for Transportation Workloads
Dhruv Mahajan, University of Florida
(Ph.D. student)

Planning for Schools & Communities: Grounded Theories & Complex Systems
Mathew Palmer, University of North Carolina at Chapel Hill
(Ph.D. student)

Performance Evaluation of Choice Set Generation Algorithms for Modeling Truck Route Choice: Insights from Large Streams of Truck-GPS Data
Divyakant Tahlyan, University of South Florida
(Master’s student)

Session 4B – Infrastructure & Design (3315)
Moderator: Armin Mehrabi, Ph.D., Florida International University
(Each presentation including Q&A is 20 min)
A New Resilience Measure for Infrastructure Restoration Plan Optimization Considering Unmet Demand in Transportation System after Disruptive Events
Tingting Zhao, Ph.D., University of South Florida

A Comparative Analysis of Exit Ramp Terminal Design Practices to Deter Wrong-Way Driving in Different States
Md Atiquzzaman, Auburn University (Ph.D. student)

Application of Geometric Design & Access Control Techniques to Reduce Wrong-Way Driving on Freeways
Hugo Zhou, Ph.D., Auburn University

Session 4C – Freight (3320)
Moderator: Evangelos Kaisar, Ph.D., Florida Atlantic University
(Each presentation including Q&A is 20 min)

Multidimensional Freight Resource Allocation & Optimal Project Prioritization
Santosh Bhattarai, University of Memphis (Master’s student)

A Multi-Resolution Index for Intermodal Freight Connectivity
Sam Jordan, University of Memphis (Ph.D. student)

Land Use Analysis to Enhance Successful Logistics Activity Center (LAC) Development
Seckin Ozkul, Ph.D., University of South Florida

Reliable Routing of Road-Rail Intermodal Freight under Uncertainty
Majbah Uddin, University of South Carolina (Ph.D. student)

Session 4D – Transit & Energy Issues (2360)
Moderator: Kari Watkins, Ph.D. Georgia Institute of Technology
(Each presentation including Q&A is 20 min)

Assessing the Overall Equity of Spatial-Temporal Transit Access to Jobs in Orlando Urban Area, Florida
Wencui Yang, University of Florida (Ph.D. student)

Guidance for Identifying Corridor Conditions that Warrant Deploying 1 Transit Signal Priority
Evangelos Kaisar, Ph.D., Florida International University

Geoprocessing Models for Identifying Suitable Energy Crop Locations along Roadside Right-of-Way Areas in the State of Georgia
David Penn, Georgia Southern University (Master’s student)
12:00 pm

**Conference Ends**
(Shuttles depart for hotels, meet at circular drive, Reitz Union, and will be running until 2:30 pm)

12:00 pm to 2:00 pm

**Lunch Meeting of Sponsoring UTCs & Directors**
(By Invitation Only, Room 2340)
Poster Showcase

Rion Ballroom, 3rd Level

November 16, 2017

(Posters will be on display all day and winners of the student poster competition will be announced at the UTC Conference Reception)

   Olumide Abioye, Florida A&M University/Florida State University (student)

2. Analysis of Performance Measures at Signalized Intersections in Mixed Autonomous & Conventional Traffic Conditions
   Adekunle Adebisi, Florida A&M University/Florida State University (student)

3. Evaluation of Recurrent & Non-recurrent Congestion in the Birmingham Region
   Islam Md. Ahsanul, University of Alabama at Birmingham (student)

4. Data Sources & Measures for Transportation Performance Management
   Islam Md. Ahsanul, University of Alabama at Birmingham (student)

5. Safety Impacts of Automated Vehicles in Mixed Traffic
   Ramin Arvin, University of Tennessee (student)

6. Modeling the Risk of Wrong-Way Driving Entry at the Exit Ramp Terminals of Full Diamond Interchanges
   Md Atiquzzaman, Auburn University (student)

7. Estimation of Freeway Platooning Measures using Surrogate Measures Based on Connected Vehicle Data
   Leila Azizi, Florida International University (student)

8. Understanding People’s Preference & Their Willingness to Pay for Advanced Safety Features in Automobiles
   Suryaprasanna Kumar Balusu, University of South Florida (student)

   Megan Bayles, staff, Florida State University

10. Path-Based Travel Time Reliability using Truck GPS Data
    Santosh Bhattarai, University of Memphis (student)
11. Commercial Vehicle Parking’s Influence on Interstate Ramp Crashes
Alexandra Boggs, University of Tennessee (student)

12. Transportation & Residential Location Outlooks of the Millennial Generation
Les Brown, University of Florida (student)

13. Novel Application of the Falling Weight Deflectometer Test: Detection of Surface & Subsurface Distresses
Anirban Chatterje, Georgia Institute of Technology (student)

14. Driver Behavior in Mixed Connected-Automated & Conventional Vehicle Traffic at a Freeway Merge
Sneha Chityala, Florida A&M – Florida State University (student)

15. Reducing Cement Usage of Florida Structural Concrete by Optimizing Aggregate Gradation & Minimizing Paste Content
Hung Weng Chung, University of Florida (student)

16. Signal Timing Optimization with Consideration of Environment & Safety Impacts
Gustavo de Andrade, University of Florida (student)

17. Creating Safe Routes to School in Rural Florida Communities
Austen Dole, University of Florida (student)

18. Binary Probit Crash Analysis for Various Curve & Grade Conditions
Mehrnaz Doustmohammadi, University of Alabama - Huntsville (student)

19. A Joint Trajectory & Signal Optimization Model for Connected Automated Vehicles at Signalized Intersections & Work Zones
Amir Ghiasi, University of South Florida (student)

20. Random Utility-based Accessibility Measurement for Orlando, MSA
Mengjie Han, University of Florida (student)

21. Close or Far from Home? An Investigation on Location of Elderly Pedestrian Crashes
Henrick Haule, University of North Florida (student)

22. Pedestrian Safety with Personal Listening Devices
Janelle Horton, North Carolina A&T State University (student)

23. Identifying the Contributing Factors of Motorcycle Fatality Rates in the USA – An Exploratory National Data Analysis
Dr. Mouyid Islam, University of South Florida

24. The Impacts of Electric Vehicle Penetration & Electricity Generation Mix on Emissions in the U.S.
Dr. Roxana Javid, Savannah State University
25. Port Recovery in the Aftermath of Oil Spill Incident
   Dr. Evangelos Kaisar, Associate Professor, Florida Atlantic University

26. What Measures of Driving Volatilities Best Explain Crash Frequency at Intersections?
   Mohsen Kamrani, University of Tennessee (student)

27. Applying Markov Decision Process & Reinforcement Learning to Understand Driving Decisions in Connected Vehicle Systems
   Mohsen Kamrani, University of Tennessee (student)

28. Operational Impacts of Freeway Congestion on Adjacent Arterials: Jacksonville Case Study
   Alican Karaer, University of North Florida (student)

29. Interface Design for the Vulnerable Road User Mobility Assistance Platform Project
   Daniel Kavanaugh, Virginia Tech/VTTI (student)

   Sakib Khan, Clemson University (student)

31. Assessment of the Benefits of Queue Warning in a Connected Vehicle Environment Based on Surrogate Safety Measures
   Samaneh Khazraeian, Florida International University (student)

32. Incorporating Travel Time Reliability in Predicting the Likelihood of Aging Drivers Severe Crashes using Dirichlet Random Effect Regression
   Emmanuel Kidando, Florida A&M University – Florida State University (student)

33. Real-time Estimation of Secondary Crashes Likelihood using a Bayesian Network Model
   Angela Kitali, Florida International University (student)

34. Assessing the Factors that Affect the Public Engagement with Department of Transportation Twitter Accounts
   Ayberk Kocatepe, Florida State University (student)

35. Evaluation of Bus Routes Efficiency Using Data Envelopment Analysis (DEA) and Free Disposal Hull (FDH) Approaches
   Stavroula Manta, Florida Atlantic University (student)

36. Safety Impact of Connected & Autonomous Vehicles for Older Drivers
   Jaqueline Masaki, Florida A&M University- Florida State University (student)

37. Development of Eco-Approach & Departure at Signalized Intersections Application in a Real-World Connected Vehicle Environment
   Rahman Minazur, Clemson University (student)

38. Safety Evaluation of the Advanced Stop Assist System in Connected Vehicle Environment
   Gwamaka Njobelo, University of North Florida (student)
39. **Preliminary Capacity Analysis of Freeway Capacity with Connected & Autonomous Vehicles (CAVs)**  
Theophilus Oluwatosisin, Florida A&M University – Florida State University (student)

Andrew Paedae, PRISM Project Coordinator, Florida State University (student)

41. **Investigation & Guidelines for Mass Concrete Construction Management**  
Jinsoo Park, Georgia Institute of Technology (student)

42. **Performance Analysis of Conventional & Diverging Diamond Interchanges**  
Sung Jun Park, Georgia Institute of Technology (student)

43. **Modeling the Most Preferred Way of Using Autonomous Vehicles: Some New Evidences Based on a Stated-Choice Survey**  
Vinod Sheela Parvathy, University of South Florida (student)

44. **Marine Container Terminal Cooperation: A Nash Bargaining Approach**  
Karlis Pujats, University of Memphis (student)

45. **Comparative Analysis of Simulation Tools Used for Shared Mobility Modeling**  
Furat Salman, University of Alabama at Birmingham (student)

46. **Assessment of Potential Impacts of Connected Autonomous Vehicles on Mobility & Conflicts in a Work Zone: A Microsimulation Based Approach**  
Fehintola Sanusi, Florida A&M University – Florida State University (student)

47. **Don’t Block the Box: Blocking Behavior Effect on Intersection Performance**  
Abhilasha Saroj, Georgia Institute of Technology (student)

48. **Highway Capacity Manual Methodologies for Corridors Involving Freeways & Surface Streets**  
Fabio Sasahara, University of Florida (student)

49. **Optimize the Location of Managed Lanes Access Segment for Efficient Cross Weaving in Freeway Facilities**  
Dr. Dong Shen, University of Florida

50. **Disaggregate Market Penetration Prediction Model for Autonomous Vehicle Technology in Freight Organizations**  
Jesse Simpson, University of Memphis (student)

51. **A Software Tool for Freeway Travel Time Reliability Analysis: Development & Testing**  
Wei Sun, University of Florida (student)
52. **Performance Evaluation of Choice Set Generation Algorithms for Modeling Truck Route Choice: Insights from Large Streams of Truck-GPS Data**  
Divyakant Tahlyan, University of South Florida (student)

53. **Acceleration Distance Provision to Accommodate Trucks on Metered Ramps**  
Mosammat Tahnin Tariq, Florida International University (student)

54. **An Investigation of Crash Proximity to the Residential Locations of Crash Occupants**  
Mehmet Ulak, Florida State University (student)

55. **Vulnerability Assessment to the Impacts of Sea Level Rise in the Transportation Infrastructure of Cedar Key, Florida**  
Luiz Ungericht, University of Florida (student)

56. **Operational Effects to Difference Modes at Signalized Intersections from Differing Geometries, Signal Systems & Volume Levels**  
Tyler Valila, University of Florida (student)

57. **Vulnerability of Motorcycle Users to Injury Crashes: A Heterogeneity Based Case-Control Analysis**  
Behram Wali, University of Tennessee (student)

58. **Improve Sight Distance at Signalized Ramp Terminals of Partial Cloverleaf Interchanges to Deter Wrong-Way Entries**  
Jin Wang, Auburn University (student)

59. **Impact of Freeway Deceleration Lane Length on Naturalistic Driving Speed & Deceleration Rates**  
Dan Xu, Auburn University (student)

60. **Field Implementation & Verification of Directional Rumble Strips to Deter Wrong-Way Freeway Entries**  
Chennan Xue, Auburn University (student)

61. **Accessibility & Neighborhood Quality: A Parcel Level Evaluation of Housing Choice Voucher Locations in Duval County**  
Xinyuan Yang, University of Florida (student)

Ruiyuan Yang, University of Florida (student)

63. **Parameter Adjustment Function for Bluetooth Low Energy Sensors in Dynamic Construction Proximity Applications**  
Xiaoyu Yang, Georgia Institute of Technology (student)

64. **Are Older Adults Prone to More Severe Crashes Farther Away from Home? An Exploratory Assessment using Florida Data**  
Abraham Yarney, University of Florida (student)
65. Identifying & Analyzing Extreme Lane Change Events using Basic Safety Messages in a Connected Vehicle Environment

Meng Zhang, University of Tennessee (student)

Conference Organizers

Robert Bertini, Ph.D., Center for Urban Transportation Research (CUTR), University of South Florida

Mashrur “Ronnie” Chowdhury, Ph.D., Glenn Department of Civil Engineering, Clemson University

Lily Elefteriadou, Ph.D., University of Florida Transportation Institute/STRIDE Center, University of Florida

David Harkey, Ph.D., Collaborative Sciences Center for Road Safety (USDOT National Center), University of North Carolina at Chapel Hill

Michael Hunter, Ph.D., Georgia Institute of Technology

Evangelos Kaisar, Ph.D., Freight Mobility Research Institute, Florida Atlantic University

Maranda McBride, Ph.D., Center for Advanced Transportation Mobility, North Carolina A&T State University

Armin Mehrabi, Ph.D., Accelerated Bridge Construction (ABC-UTC), Florida International University

Stephen Richards, Ph.D., Southeastern Transportation Center, University of Tennessee

John Sobanjo, Ph.D., Center for Safe & Accessible Transportation for an Aging Population, Florida State University