5th Annual UTC Conference for the Southeastern Region

November 16 - 17, 2017

J. Wayne Reitz Union
at the University of Florida
Rion Ballroom, 3rd Level

Hosted by

STRIDE
Southeastern Transportation Research, Innovation, Development and Education Center

UF Transportation Institute
UNIVERSITY of FLORIDA
5TH ANNUAL UTC CONFERENCE FOR THE SOUTHEASTERN REGION

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 in Southeastern U.S. to disseminate information about ongoing activities 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 presentation 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 the Southeastern Transportation Center (STC), University of Tennessee, Knoxville, 2016.

The organizing committee is very thankful for the support of our conference sponsors. Your generosity demonstrates 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 organizing this conference.
Thursday, Nov. 16, 2017

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

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

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, Reitz Union)

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

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

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

10:00 am to 11:30 am  Presentations by Faculty & Graduate Students
Session 1A – Infrastructure (Room 2365)
Session 1B – Operations (Room 3315)
Session 1C – Safety (Room 3320)
Session 1D – Aviation & Energy (Room 2315)

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.
School of Civil & Environmental Engineering
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 University

Transportation Center (ABC-UTC)
Florida International University

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

John Sobanjo, Ph.D.
Center for Safe & Accessible Transportation for an Aging Population
Florida State University - FAMU
Thursday, Nov. 16, 2017

11:30 am to 1:00 pm  
**Lunch & Student Poster Exhibit**  
(Rion Ballroom, 3rd Level, Reitz Union)  
Students at Posters - 12:30 pm to 1:00 pm

1:00 pm to 2:30 pm  
**Presentations by Faculty & Graduate Students**  
Session 2A – Infrastructure (Room 2365)  
Session 2B – Operations (Room 3315)  
Session 2C – Safety (Room 3320)

2:30 pm to 4:00 pm  
**Afternoon Break & Student Poster Exhibit**  
(Rion Ballroom, 3rd Level, Reitz Union)  
Students at Posters - 2:30 pm to 3:00 pm  
**AV/CV Demo**  
(Shuttles 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**  
Moderator: Pedro Maldonado, ITE Student Chapter President, University of Florida  
Activity: “Discover Your Leadership Style”  
(Room 3315)

**Session 2: State DOT Panel (Room 2365)**  
Moderator: Dr. Virginia Sisiopiku, University of Alabama at Birmingham  
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  
(Shuttles depart for hotels from Reitz Union circular drive, running until 8:30 pm)
SESSION 1A
INFRASTRUCTURE (ROOM 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 Sensors 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 (ROOM 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 Dulebenets, Ph.D., FAMU-Florida State University

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

SESSION 1C
SAFETY (ROOM 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
Angshuman Guin, 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 (ROOM 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
(Master’s student)

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)
## SESSION 2A INFRASTRUCTURE (2365)

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

<table>
<thead>
<tr>
<th>Presentation</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internally Cured Concrete for Pavement &amp; Bridge Deck Applications</td>
<td>Thanachart Subgranon, Ph.D.</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Where Are the Curves? GIS Methodology for Automatic Detection of Roadway Curves</td>
<td>Xingjing Xu, Ph.D.</td>
<td>University of Florida</td>
</tr>
<tr>
<td>Empirical Modeling of Cost Variation in Highway Construction Projects</td>
<td>Minsoo Baek, Ph.D.</td>
<td>Georgia Institute of Technology</td>
</tr>
<tr>
<td>Pavement Distress Data Collection Using Sensor-Mounted Connected Vehicles</td>
<td>Jinwoo Jang, Ph.D.</td>
<td>Florida Atlantic University</td>
</tr>
</tbody>
</table>

## SESSION 2B OPERATIONS (3315)

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

<table>
<thead>
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</thead>
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<tr>
<td>Identification of the Recurrent Freeway Bottlenecks of Pacific Coastal Areas in California by Travel Time Reliability Analysis</td>
<td>Lei Bu, Ph.D.</td>
<td>Jackson State University</td>
</tr>
<tr>
<td>Atlanta Smart City Initiative - Corridor &amp; Special Event Application</td>
<td>Mike Hunter, Ph.D.</td>
<td>Georgia Institute of Technology</td>
</tr>
<tr>
<td>Understanding the Relationship between Traffic Flow &amp; Performance at Work Zones</td>
<td>Ossama Ramadan, Ph.D.</td>
<td>University of Alabama at Birmingham</td>
</tr>
<tr>
<td>Methodology to Identify On-Ramps for Metering with Consideration of System-Wide Recurrent &amp; Non-Recurrent Congestion</td>
<td>Homa Fartash, Ph.D.</td>
<td>Florida International University</td>
</tr>
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## SESSION 2C SAFETY (3320)

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

<table>
<thead>
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<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analysis of Work Zone Crash Reports to Determine Factors Associated with Crash Severity</td>
<td>Nick Jehn, Ph.D.</td>
<td>Auburn University</td>
</tr>
<tr>
<td>Cost-Sensitive Instance-Based Data Mining Method to Predict Driver Injury Severity Considering the Influence of Driver Age &amp; Gender</td>
<td>Somayeh Mafi, Ph.D.</td>
<td>Florida State University</td>
</tr>
<tr>
<td>The Impact of Stress &amp; Sleep on Driving Safety in Medical Residents</td>
<td>Benjamin McManus, Ph.D.</td>
<td>University of Alabama at Birmingham</td>
</tr>
<tr>
<td>Exploring the Scope for Spatial &amp; Temporal Transferability of Bicycle Crash Modification Factors</td>
<td>Md. Asif Raihan, Ph.D.</td>
<td>Florida International University</td>
</tr>
</tbody>
</table>
Friday, Nov. 17, 2017

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

7:00 am to 8:00 am  Breakfast
  (Rion Ballroom, 3rd Level, Reitz Union)

8:00 am to 8:45 am  Keynote Address
  Introduction by
  Dr. Lily Elefteriadou
  UFTI/STRIDE Director
  (Rion Ballroom, 3rd Level, Reitz Union)

  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, 3rd Level, Reitz Union)

8:45 am to 10:15 am  Presentations by Faculty & Graduate Students
  Session 3A – Multimodal (Room 2365)
  Session 3B – Operations (Room 3315)
  Session 3C – Safety & Traveler Issues (Room 3320)
  Session 3D – Transit (Room 2360)

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

10:30 am to 12:00 pm  Presentations by Faculty & Graduate Students
  Session 4A – Planning (Room 2365)
  Session 4B – Infrastructure & Design (Room 3315)
  Session 4C – Freight (Room 3320)
  Session 4D – Transit & Energy Issues (Room 2360)

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)
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 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 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)

Modeling 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 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
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)

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
Huaguo “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
Md. Sultan Ali, M.S., Research Associate, Florida Atlantic 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)
**Poster Showcase**
(Rion Ballroom, 3rd Level, Reitz Union)

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

Olumide Abioye, FAMU-Florida State University (student) | 13. Reducing Cement Usage of Florida Structural Concrete by Optimizing Aggregate Gradation & Minimizing Paste Content  
Hung-Wen Chung, University of Florida (student) |
|---|---|
| 2. Analysis of Performance Measures at Signalized Intersections in Mixed Autonomous & Conventional Traffic Conditions  
Adekunle Adebisi, FAMU-Florida State University (student) | 14. Signal Timing Optimization with Consideration of Environment & Safety Impacts  
Gustavo de Andrade, University of Florida (student) |
| 3. Safety Impacts of Automated Vehicles in Mixed Traffic  
Ramin Arvin, University of Tennessee (student) | 15. Creating Safe Routes to School in Rural Florida Communities  
Austen Dole, University of Florida (student) |
| 4. Modeling the Risk of Wrong-Way Driving Entry at the Exit Ramp Terminals of Full Diamond Interchanges  
Md. Atiquzzaman, Auburn University (student) | 16. Optimize the Location of Managed Lanes Access Segment for Efficient Cross Weaving in Freeway Facilities  
Dr. Shen Dong, University of Florida |
| 5. Estimation of Freeway Platooning Measures Using Surrogate Measures Based on Connected Vehicle Data  
Leila Azizi, Florida International University (student) | 17. Binary Probit Crash Analysis for Various Curve & Grade Conditions  
Mehrnaz Doustmohammadi, University of Alabama - Huntsville (student) |
| 6. Understanding People’s Preference & Their Willingness to Pay for Advanced Safety Features in Automobiles  
Surya Prasanna Kumar Balusu, University of South Florida (student) | 18. A Joint Trajectory & Signal Optimization Model for Connected Automated Vehicles at Signalized Intersections & Work Zones  
Amir Ghiasi, University of South Florida (student) |
Megan Bayles, Florida State University (staff) | 19. Random Utility-based Accessibility Measurement for Orlando, Metropolitan Statistical Area  
Mengjie Han, University of Florida (student) |
| 8. Path-Based Travel Time Reliability Using Truck GPS Data  
Santosh Bhattarai, University of Memphis (student) | 20. Close or Far from Home? An Investigation on Location of Elderly Pedestrian Crashes  
Henrick Haule, University of North Florida (student) |
| 9. Commercial Vehicle Parking’s Influence on Interstate Ramp Crashes  
Alexandra Boggs, University of Tennessee (student) | 21. Pedestrian Safety with Personal Listening Devices  
Janelle Horton, North Carolina A&T State University (student) |
| 10. Transportation & Residential Location Outlooks of the Millennial Generation  
Les Brown, University of Florida (student) | 22. Evaluation of Recurrent & Non-recurrent Congestion in the Birmingham Region  
Md. Ahsanul Islam, University of Alabama at Birmingham (student) |
| 11. Novel Application of the Falling Weight Deflectometer Test: Detection of Surface & Subsurface Distresses  
Anirban Chatterjee, Georgia Institute of Technology (student) | 23. Data Sources & Measures for Transportation Performance Management  
Md. Ahsanul Islam, University of Alabama at Birmingham (student) |
| 12. Driver Behavior in Mixed Connected-Automated & Conventional Vehicle Traffic at a Freeway Merge  
Sneha Chityala, FAMU-Florida State University (student) |
24. Identifying the Contributing Factors of Motorcycle Fatality Rates in the USA – An Exploratory National Data Analysis  
   Dr. Mouyid Islam, University of South Florida

25. The Impacts of Electric Vehicle Penetration & Electricity Generation Mix on Emissions in the U.S.  
   Dr. Roxana Javid, Savannah State University

26. Port Recovery in the Aftermath of Oil Spill Incident  
   Dr. Evangelos Kaisar, Associate Professor, Florida Atlantic University

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

   Mohsen Kamrani, University of Tennessee (student)

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

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

   Sakib Khan, Clemson University (student)

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

33. Incorporating Travel Time Reliability in Predicting the Likelihood of Aging Drivers’ Severe Crashes Using Dirichlet Random Effect Regression  
   Emmanuel Kidando, FAMU-Florida State University (student)

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

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

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

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

38. Safety Evaluation of the Advanced Stop Assist System in Connected Vehicle Environment  
   Gwamaka Njobelo, University of North Florida (student)

   Andrew Paedae, PRISM Project Coordinator, Florida State University

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

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

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

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

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

45. Assessment of Potential Impacts of Connected Autonomous Vehicles on Mobility & Conflicts in a Work Zone: A Microsimulation-Based Approach  
   Fehintola Sanusi, FAMU-Florida State University (student)
46. Don’t Block the Box: Blocking Behavior Effect on Intersection Performance  
   Abhilasha Saroj, Georgia Institute of Technology (student)

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

   Parvathy Vinod Sheela, University of South Florida (student)

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

50. A Software Tool for Freeway Travel Time Reliability Analysis: Development & Testing  
   Wei Sun, University of Florida (student)

   Divyakant Tahlyan, University of South Florida (student)

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

53. Preliminary Capacity Analysis of Freeway Capacity with Connected & Autonomous Vehicles (CAVs)  
   Oluwatosin Theophilus, FAMU-Florida State 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 Valilla, 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)