Welcome to AHB45 Committee on Traffic Flow Theory and Characteristics

January 8, 2018
Self-Introductions Members/Friends

Please don’t forget to sign in!
Agenda

- Review and Approval of Minutes  
  S. Ahn
- Committee Membership Update  
  S. Ahn
- Chair Report  
  S. Ahn
- TRB Report  
  R. Bertini and R. Cunard
- Transportation Systems Simulation Manual  
  S. Ahn/R. Bertini/J. Halkias/C. Leggett
- FHWA Programs & Activities  
  J. Sturrock
- TFTC Subcommittee Reports
  - Joint Subcommittee on Traffic Simulation Models (AHB45(1) SimSub)  
    M. Hadi
  - Crowd Flow Dynamics, Modeling and Management (AHB45(2))  
    M. Sarvi/S. Hoogendoorn
  - Connected Automated Vehicles (AHB45(3))  
    S. Hamdar
  - Research Problem Statements  
    M. Hadi
  - Paper Review  
    S. Ahn
  - Greenshields Prize & Awards  
    L. Leclercq/S. Ahn
  - Mid-Year Meetings  
    C. Buisson
  - Outreach and Diversity  
    A. Talebpour
  - MFD Dataset  
    J. Laval
- Liaison with other Committees  
  All Attendees
- International Liaison  
  International members and attendees
- Announcements and Future Meetings  
  All Attendees
- New Business  
  All Attendees
Review and Approve Minutes

- **January 9, 2017**
- **July 23, 2017**
- Thanks to Nikolas Geroliminis and Vikash Gayah for preparing the minutes!
- Thanks to Rob for making them available on our committee website!
Membership Update

- Currently 38 members
  - 25 members
  - 5 international
  - 4 young
  - 2 state DOT
  - 2 emeritus

- Next membership rotation: 2019
TRB Report

- Robert Bertini
- Rich Cunard
Transportation Systems Simulation Manual (TSSM)

- TSSM background
- Task Force on System Simulations (AHB80T) Update
- TSSM Status and Next Step
U.S. DOT/FHWA Report

- Jim Sturrock
  - ATDM/DMA Testbed
  - Traffic Analysis Tools Volume III Revision
  - Trajectory Validation Engine Project
  - Predictive Engine Project
### Subcommittees

1. Joint Subcommittee on Traffic Simulation Models  
   - Hadi
2. Crowd Flow Dynamics, Modeling and Management  
   - Sarvi/Hoogendoorn
3. Connected Automated Vehicles  
   - Hamdar
4. Research Problem Statements  
   - Hadi
5. Paper Review  
   - Ahn
6. Awards  
   - Leclercq/Ahn
7. Mid-Year Meetings  
   - Ahn
8. Outreach and Diversity  
   - Talebpour
9. MFD Data Sets  
   - Laval
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   Laval
Joint Traffic Simulation (SimSub) Subcommittee Report

Presented by

Mohammed Hadi, Ph.D., PE
Florida International University

Transportation System Simulation Manual Workshop
97th Transportation Research Board Annual Meeting

January 2018
Sunday Workshop

- Workshop Title: Data Driven Simulation to Support Decision Making in the 21st Century: Barriers and Potential Benefits
  - Data Driven Analysis Techniques in Reliability Space
  - Helping to Converge the Practice of Transportation System Simulation”
  - Data Plan for the NYC Connected Vehicle Pilot Deployment Evaluation
  - Guidelines for Designing Active Transportation and Demand Management (ATDM) Strategies Through Understanding Travelers' Motivations in Decision-making: Data Collection, Analysis and Modeling
  - Challenges to Simulating the Traffic and Energy Impacts of Connected and Automated Vehicle Systems
  - Data Inputs and Impacts to Connected and Automated Vehicle Modeling
  - Takeaways from ISTTT 22”
SimSub Activities and Discussions

- Best paper award
  - Theory: no paper selected
  - Application: Improving Scalability of Generic Online Calibration for Real-Time Dynamic Traffic Assignment Systems

- Life-time awards
- SimSub report – David Hale
- Potential SimSub and ITE SimCap collaboration
- Safety and pedestrian modeling task group
- Freight modeling
- Support of TSSM research
- Need for the Creation of a Microsimulation Information Repository
Potential SimSub and SimCap Joint Activities

- Safety modeling including ped conflict
- Pedestrian modeling – possible PTV presentation and/or task group or problem statements
- Product-specific guidance and information and meeting user community expectation by vendors (should we have a task group)
- CAV and reliability outreach activities to the community – how can we have a bridge between research and practice
- Lessons learned, value of good simulation, return on investment (task group, problem statement for NCHRP synthesis).
- Consistent and reliable data sources
- Ethical and credibility challenges, possibly certification challenges
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   Laval
Subcommittee Crowd Flow Dynamics, Modelling, and Management AHB45 (2)

Activity Report
(Serge Hoogendoorn, Majid Sarvi, Winnie Daamen)
Subcommittee’s Activities in 2017-2018:

1) TRB special call for papers
   16 papers received
   →Lectern session on Wednesday (2:30PM-4PM), session 847, CC101

2) Subcommittee meeting on Monday 6PM-7:30PM, Marriott, Ballroom Salon 6 (M2)

3) Workshop on Thursday, 8AM-12, CC101

4) New book (Monograph on crowd traffic flow theory)
Subcommittees

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   Hamdar
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Annual Report

AHB45(3) Subcommittee: Traffic Flow Modeling for Connected and Automated Vehicles

AHB45 Meeting
Washington, DC, USA
January, 2018
Traffic Flow Modeling for Connected and Automated Vehicles – AHB45 (3)

Transportation Research Board Annual Meeting Events (7-11 January ’18):

a. **Call for Papers:**
   Connected Multi-Modal Transportation System Modeling & Simulation.
   - 27 Papers Submitted (5 Lectern, 8 Poster, 4 Possible Considerations for Publication)
   - 1 Lectern Session (Connected Multimodal Transportation System Modeling and Simulation - Wednesday 4:30 pm– 6:00 pm; Convention Center 101)

b. **Workshop** proposal (Sunday January 8, 2018, 1:30 pm – 4:30 pm):
   Data Collection, Experiments and Instrumentation in Connected Multimodal Transportation Systems
   (Antonio Caamano/John Campbell, Zhingan Xu, Majid Sarvi, Alireza Talebpour, Dinesh Manocha, Victor Knoop/Winnie Daaman)
AVS 2017: Breakout Session # 14 Enhancing the Validity of Traffic Flow Models with Emerging Data

- Speakers (Daniel Work, Jiaqi Ma, Rita Excell and Steve Shladover)
- Report prepared (Michael Levin, Meng Wang, Xiaopeng Li, Steve Mattingly)

Book Chapters:

- 2016: Traffic Flow of Connected and Automated Vehicles: Challenges and Opportunities (Simeon Calvert, Hani Mahmassani, Jan-Niklas Meier, Pravin Varaiya, Samer Hamdar, Danjue Chen, Xiaopeng Li, Alireza Talebpour, Stephen P. Mattingly) Traffic Flow of Connected and
- 2017 and 2018 Book Chapters ....
Summary of Key Findings and Lessons Learned

- Data collection for a variety of vehicles is needed: researchers currently use simple models due to the difficulty and expense of obtaining real data. Companies are reluctant to make available their vehicles or even their ACC logic because it risks reverse engineering proprietary software through observation of powertrain commands.
- ACC minimum safe gaps for reverting to human control often seem quite low; human driver behavior modeling still essential: estimating the effects of AVs during the transitionary period requires more accurate modeling of human driving.
- CACC systems differ from platooning systems in several ways. In platoons, the lead vehicle typically has a supervisory role for vehicles entering and leaving, whereas CACC string formation is more ad-hoc.
- Models should include vehicle dynamics and receipt and response to communications.
- Other types of AV applications, such as freight, are more economically driven. AVs are in consideration for railroads because of the reduction in cost. Part of the large infrastructure costs for freight transport should be directed towards modeling the traffic flow and economic impacts.
- Research models are unlikely to be implemented directly in car companies: lack of details for real-time applications and issues associated with implementation paradigms and proprietary software.
- Development of common testbeds and data is a large issue. Sharing data with other researchers requires considerable expense for documentation and support. Data confidentiality becomes an issue as well. Driver behavior, such as car following and lane changing, also varies by country. Initiative to be taken by AHB45(3) Subcommittee.
Recommended Action Items

• Develop partnerships with companies developing AVs to test and collect data.
• Educate the public on mobile control. For example, drivers may become angry or frustrated at vehicles implementing speed harmonization if they do not understand the benefits to congestion.
• Allocate funding in AV tests for documenting and sharing data.
• Create a forum for sharing main lessons and ideas with AV manufacturers without getting lost in the details.
Traffic Flow Modeling for Connected and Automated Vehicles – AHB45 (3)

2017 Traffic and Granular Flow Conference (TGF’17)

a. ~90 attendees
b. 116 papers submitted – 103 papers accepted originally for the first round
c. 42 reviewers (including Scientific Committee) invited; 26 answered
d. 36 poster presentations/67 lectern presentations/3 plenary presentations
e. 14 lecterns sessions (3 special sessions on Connected Systems)
f. 4 Poster Sessions and One Plenary Session
g. Two tracks (Pedestrians/Bicycles VS Vehicles/Complex Systems)
h. Around 40 manuscripts submitted for Proceedings --> 3 Special Issues
Traffic Flow Modeling for Connected and Automated Vehicles – AHB45 (3)

Activities and Action Items:

a. 3 Special Issue Collaborations (J of ITS, J of TTE, TR-C)

b. AVS 2018 Discussions

c. Possible expansion in mission/scope

d. Website and Data Hub (Committee Wide Initiative – Jorge Laval, Sue Ahn)

https://tftcav.seas.gwu.edu/exchange-portal/

e. Further Outreach (Outreach and Diversity Subcommittee)

Join US in our Meeting – 6:00 PM-7:30 PM, Marriott Marquis, Marquis Ballroom Salon 9
Special Thanks to AHB45(3) Committee/Volunteers:

- Xiaopeng (Shaw) Li
- Haizhong Wang
- Sue Ahn
- Robert L. Bertini
- Mark Brackstone
- Danjue Chen
- Samer Hamdar
- Steve Mattingly
- Michael Levin
- Alireza Talebpour
- Meng Wang
- Alexander Skabardonis
Subcommittees

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Paper Review & Sessions

Many thanks to subcommittee members, authors and reviewers!

1345 papers since 2009
Special Calls for Papers

- Crowd dynamics: empirical analyses, modeling, simulation and management
  - Organizers: Majid Sarvi, Serge Hoogendoorn, Winnie Daamen,
  - 14 papers received
  - 1 podium session

- Advances in modeling and traffic management for large-scale urban networks
  - Organizers: Nikolas Geroliminis, Nicolas Chiabaut, Jack Haddad, Mehdi Keyvan Ekbatani, Victor Knoop, Jorge Laval, Ludovic Leclercq, Monica Menendez, Mohsen Ramezani, Meaad Saberi, Ali Zockaie,
  - 24 papers received
  - 1 podium session
Special Calls for Papers

- **Connected multi-modal transportation system modeling & simulation**
  - Organizers: Lead by AHB 45(3), Samer Hamdar, Robert Bertini, Soyoung Ahn, Mohammed Hadi
  - 27 papers received
  - 1 podium session

- **Multimodal system analysis and modeling**
  - Organizers: Monica Menendez, Nicolas Chiabaut, Vikash Gayah, Ilgin Guler, Eric Gonzales, Eleni Christofa, Weihua Gu
  - 14 papers received

- **Special Calls for 2019 Due in May 2018**
  - Topics?
## Paper Review Statistics

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## Paper Review Statistics

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**Annual Meeting 2018**

- **Papers Received**: 194
- **Percent increase**: -6%
- **Presentation only**: 64
- **Publication only**: 4
- **Present and publish**: 126
- **Subtotal**: 109
- **Percent Accepted**: 57%
- **Rejected**: 81

**Annual Meeting 2017**

- **Papers Received**: 207
- **Percent increase**: 20%
- **Presentation only**: 67
- **Publication only**: 1
- **Present and publish**: 139
- **Subtotal**: 114
- **Percent Accepted**: 55%
- **Rejected**: 92

**Annual Meeting 2016**

- **Papers Received**: 173
- **Percent increase**: -14%
- **Presentation only**: 54
- **Publication only**: 2
- **Present and publish**: 117
- **Subtotal**: 102
- **Percent Accepted**: 60%
- **Rejected**: 70

**Annual Meeting 2015**

- **Papers Received**: 201
- **Percent increase**: 4%
- **Presentation only**: 48
- **Publication only**: 4
- **Present and publish**: 149
- **Subtotal**: 107
- **Percent Accepted**: 54%
- **Rejected**: 90

**Annual Meeting 2014**

- **Papers Received**: 195
- **Percent increase**: 13%
- **Presentation only**: 32
- **Publication only**: 3
- **Present and publish**: 160
- **Subtotal**: 107
- **Percent Accepted**: 56%
- **Rejected**: 85

**Annual Meeting 2013**

- **Papers Received**: 192
- **Percent increase**: -3%
- **Presentation only**: 27
- **Publication only**: 5
- **Present and publish**: 160
- **Subtotal**: 99
- **Percent Accepted**: 59%
- **Rejected**: 68

**Annual Meeting 2012**

- **Papers Received**: 172
- **Percent increase**: 49%
- **Presentation only**: 32
- **Publication only**: 5
- **Present and publish**: 140
- **Subtotal**: 92
- **Percent Accepted**: 53%
- **Rejected**: 80

**Annual Meeting 2011**

- **Papers Received**: 119
- **Percent increase**: 18%
- **Presentation only**: 22
- **Publication only**: 1
- **Present and publish**: 96
- **Subtotal**: 80
- **Percent Accepted**: 67%
- **Rejected**: 38
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## Review Timeline

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<tr>
<td>Aug 1</td>
<td>Papers due</td>
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<td>Aug 20</td>
<td>Assign reviews</td>
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<td>Sep 30 – Oct 15</td>
<td>1st round decision</td>
<td>Accept, RR (major revision, minor revision), Reject</td>
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<td>Nov 15</td>
<td>Revised papers due</td>
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<tr>
<td>Dec 1 - Dec 15</td>
<td>2nd round decision</td>
<td>Accept ('minor revision' papers), Re-review, Reject</td>
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<td>Jan 31</td>
<td>Final decision</td>
<td>Accept within the quota (20%), Reject</td>
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<td>18-01408</td>
<td>OPTIMIZING TRANSIT SIGNAL PRIORITY IMPLEMENTATION ALONG AN ARTERIAL</td>
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<td>18-00020</td>
<td>Paper for AHB45- Committee on Traffic Flow Theory and Characteristics- Resurrecting the Lost Vehicle Trajectories of Treiterer and Myers</td>
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<td>18-00597</td>
<td>INVESTIGATING TRANSFER FLOW BETWEEN URBAN NETWORKS BASED ON THE MACROSCOPIC FUNDAMENTAL DIAGRAM</td>
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<td>18-03527</td>
<td>Multi-thread Optimization for the Calibration of Microscopic Traffic Simulation Model</td>
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Committee Meetings

2018 Activities
97th Annual Meeting of the Transportation Research Board January 2018

- Committee Meeting Agenda: pdf
- Chair Letter: pdf
- Meeting Presentation Materials: pdf
- Committee Meeting Minutes: pdf

- Papers Recommended for Publication

2018 Summer Meeting Woods Hole

- Summer Meeting Agenda: pdf
- Summer Meeting Minutes: pdf
- Summer Meeting Attendance: pdf

2017 Activities
96th Annual Meeting of the Transportation Research Board January 2017
Best Reviewer Award

- Inaugural Best Reviewer Award

Christine Buisson

Congratulations!!!
Dear members and friends of the TRB Committee on Traffic Flow Theory and Characteristics (AH845):

We hope you will join us at the upcoming TRB Annual Meeting in Washington, DC January 7-11, 2018 (for details, please use the TR8 interactive program and enter “AH845” to find our events):

1. **Committee Meeting:** All members and friends are welcome at our committee business meeting, Monday, January 8, 2018 1:30 PM-5:30 PM; Marriott Marquis, Marquis Ballroom Salon 9.

2. **SimSub Meeting AH845(1):** Please support the efforts of the Joint Subcommittee on Simulation by participating in our meeting on Monday 7:30 PM-9:30 PM Marriott Marquis, Marquis Ballroom Salon 10.

3. **Crowd Flow Dynamics, Modelling and Management Subcommittee Meeting AH845(2):** The crowd/ped subcommittee will be meeting on Monday 6:00 PM-7:30 PM; Marriott Marquis, Marquis Ballroom Salon 6.

4. **Traffic Flow Modeling for Connected and Automated Vehicles AH845(3):** The CAV subcommittee will be meeting on Tuesday 6:00 PM-7:30 PM; Marriott Marquis, Marquis Ballroom Salon 9.

5. **Task Force on System Simulation AH845T:** Tuesday 8:00 AM-12:00 PM, Marriott Marquis, Shaw (By invitation).

6. **Workshops:** This year we are sponsoring or co-sponsoring three workshops and one doctoral student workshop:
   - **Workshop 130 Data-Driven Simulation to Support Decisions Making in the 21st Century: Barriers and Potential Benefits:** Sunday 9:00 AM-12:00 PM, Convention Center, 101. Join us for the annual workshop sponsored by SimTraffic and get there early since there will be a big crowd.
   - **Workshop 176 Data Collection, Experiments, and Instrumentation in Connected Multimodal Transportation Systems:** Sunday 1:30 PM-4:30 PM, Convention Center, 101. Join us for the annual CAV subcommittee workshop and support our young subcommittee.
   - **Workshop 880 ITS for Crowd Management: Recent Advances in Data and Models:** Thursday 8:00 AM-12:00PM; Convention Center, 101. Join us for the new workshop hosted by Crowd subcommittee.
   - **Doctoral Student Workshop 195 Transportation Modeling:** Sunday 1:30 PM-5:00 PM; Convention Center, 1408.

7. **Lectern Sessions:** We have five lectern sessions this year:
   - **221 Macroscopic Modeling for Traffic Estimation and Control:** Monday 8:00-9:45 AM, Convention Center, 101
   - **283 Microscopic Vehicle-Level Modeling:** Monday 10:15-12:00 PM, Convention Center, 101
   - **687 Advanced Theory and Application of Large-Scale Urban Traffic Network Models:** Tuesday 3:45-5:30 PM, Convention Center, 102A
   - **247 Crowd and Pedestrian Dynamics: Empirical Analyses, Modeling, Simulation, and Management:** Wednesday 2:30-4:00 PM, Convention Center, 101
   - **699 Connected Multimodal Transportation System Modeling and Simulation:** Wednesday 4:30-6:00 PM, Convention Center, 101

8. **Poster Sessions:** We are sponsoring three poster sessions—please attend and meet the authors:
   - **522 Traffic Flow Theory and Characteristics, Part 1:** Tuesday 8:00-9:45 AM, Convention Center, Hall E
   - **577 Traffic Flow Theory and Characteristics, Part 2:** Tuesday 10:15-12:00 PM, Convention Center, Hall E
   - **775 Traffic Flow Theory and Characteristics, Part 3:** Wednesday 8:00-9:45 AM, Convention Center, Hall E
   - **852 Traffic Flow Theory and Characteristics, Part 4:** Wednesday 10:15-12:00 PM, Convention Center, Hall E

Visit our website [https://ift.ece.usf.edu](https://ift.ece.usf.edu) and “Like” us on Facebook: [https://www.facebook.com/AH845/likes](https://www.facebook.com/AH845/likes)

Special thanks to all paper reviewers, call-for-papers organizers, paper review coordinators, subcommittee chairs, members and friends for the incredible job in putting this meeting together. Please feel free to contact me if you have any suggestions or questions. I look forward to seeing you in Washington, best wishes.

Sorajung (Sue) Ake, University of Wisconsin-Madison
Chair, TRB Committee on Traffic Flow Theory and Characteristics
Workshops

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   2. **283 Microscopic Vehicle-Level Modeling**: Monday 10:15-12:00 PM, Convention Center, 101
   3. **687 Advancing Theory and Application of Large-Scale Urban Traffic Network Models**: Tuesday 3:45-5:30 PM, Convention Center, 102A
   4. **847 Crowd and Pedestrian Dynamics: Empirical Analyses, Modeling, Simulation, and Management**: Wednesday 2:30-4:00 PM, Convention Center, 101
   5. **869 Connected Multimodal Transportation System Modeling and Simulation**: Wednesday 4:30 - 6:00 PM, Convention Center, 101

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   1. **522 Traffic Flow Theory and Characteristics, Part 1**: Tuesday 8:00-9:45 AM, Convention Center, Hall E
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   3. **775 Traffic Flow Theory and Characteristics, Part 3**: Wednesday 8:00-9:45 AM, Convention Center, Hall E
   4. **832 Traffic Flow Theory and Characteristics, Part 4**: Wednesday 10:15-12:00 PM, Convention Center, Hall E
## Subcommittees

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D. Grant Mickle Award

- Established 1976
- Outstanding paper published in the field of operation, safety, and maintenance of transportation facilities.
- Honors fifth executive director, later 33rd Executive Committee Chair

A paper from the TFT committee received the award the two last years!

Paper 17-00884: Gayah, V. et al.
Improving Street Network Efficiency by Dynamically Prohibiting Left Turns at Signalized Intersections.
Fred Burggraf Award

- Established 1966
- Stimulate and encourage young researchers
- Recognition of excellence in transportation research by researchers 35 years of age or younger whose papers have been published under the sponsorship of any Division A Standing Group
- Accompanied by a cash prize
- Honors TRB director from 1951-1964

A paper from the TFT committee wins this prize last year!

Paper 17-00887. Ilgin et al.
Estimating the Impacts of Bus Stops on Transit Signal Priority on Intersection Operations: A Queueing and Variational Theory Approach,
2017 Best 1st Young Author Paper in the area of Operations:

- 2016: Car-following and lane-changing behavior involving heavy vehicles; Chen, D., Ahn, S., Bang, S., Noyce, D., University of Wisconsin-Madison
- 2015: On Traffic Relaxation, Anticipation and Hysteresis; Hui Deng, University of California, Davis; H. Michael Zhang, University of California, Davis
- 2014: Clustering Approach to Assess Travel Time Variability of Arterials, Hans, E., Chiabaut, N., Leclercq, L., Univ. Lyon
- 2013: Inhomogeneous Flow Patterns in Undersaturated Road Networks and Implications for Macroscopic Fundamental Diagram; Jean C. Doig Godier, University of California, Berkeley; Vikash V. Gayah Pennsylvania State University; Michael J. Cassidy, University of California, Berkeley
This paper deals with the derivation of analytical formulae to estimate the effective capacity at freeway merges in a multilane context. Effective capacity means the capacity observed when the merge happens to be the head of the congestion. It extends two previous papers that are based on the same modeling framework but that are restricted to a single lane on the freeway (or to the analysis of the right lane only). The analytical expression for the one-lane capacity is recursively applied for all lanes. Lane-changing maneuvers (mandatory for the on-ramp vehicles and discretionary for others) are divided into two non-overlapping local merging areas. Usually, estimating the effective capacity at freeway merges requires a traffic simulator and multiple runs. Here, the analytical formulae provide a first estimation considering most of the important parameters related both to road design (e.g. length of the inserting length, number of lanes), and the traffic composition (e.g. truck proportion, vehicle acceleration capabilities). A sensitivity analysis shows that vehicle acceleration and the truck ratio are the most influential parameters for the total capacity. The analytical formulae are proven to provide very good estimates when compared to experimental data for an active merge on the M6 freeway in UK.
Best Paper on Traffic Flow Theory

- New award from the TFT committee this year.
- May not be awarded every year.

17-06294: A Framework for Deriving Macroscopic Demand Functions from Microscopic Acceleration Models by Srivastava, A. & Jin, W. from University of California, Irvine
Some insights

- Please mention your status (Msc., PhD student,...) on the front page! Also mention if the paper is eligible for the Burggraf award!
- Lots of papers submitted for publication in TRR have a young author as first author
- Only two papers seem eligible to the Burggraf award (hard to check in practice)
- Award subcommittee maintenance: Nathan Gartner is doing his last year as a member, Ludovic Leclercq is doing is last year as the chair (will be replaced by Monica Menendez), Jiwon Kim has been appointed as a new member starting from this year.

We are currently working on the 2017 award season!
The 2017 Greenshields prize will be announced during TFT summer meeting!
Awards

- Award Committee
  - Chair: Ludovic Leclercq
  - Monica Menendez
  - Robert Bertini
  - Nathan Gartner
Award Subcommittee Chair

- Thank you Ludovic!
  - 2010-2018

- Welcome Monica!
  - Effective 2018
Thank you Nathan!
2010-2018

Welcome Jiwon
Effective 2018
## Subcommittees

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Mid-Year Meetings

- 2007 ISTTT London, UK (in pub)
- 2008 Greenshields Symposium, Woods Hole, Massachusetts
- 2009 ISTTT Hong Kong, China (lunch table)
- 2010 Does Traffic Data Support Traffic Models? Annecy, France
- 2011 ISTTT Berkeley (one hour w/SimSub)
- 2012 Joint Summer Meeting with HCQS Committee, Fort Lauderdale, Florida
- 2013 ISTTT, Noordwijk, the Netherlands
- 2014 Portland, Oregon, USA, Symposium Celebrating 50 Years of Traffic Flow Theory
- 2015 ISTTT Kobe, Japan
- 2016 Sydney, Australia
- 2017 ISTTT Chicago
- 2018 Woods Hole, Massachusetts
- 2019 ISTTT Lausanne, Switzerland
- 2020 TBD (Ideas?)
Mid-Year Meetings

- 2018 Midyear Meeting: August 7-9, 2018, Woods Hole, Massachusetts, USA
- Simulation Manual Task Force Retreat: August 10, 2018?
2018 TFTC mid-year meeting

• Dates: Tues. 7 to Thur. 9 August (2018)
• Location: Woods Hole (MA)
120 km / 1h30 from Boston.

http://www.nationalacademies.org/Woodshole/index.htm
2018 TFTC mid-year meeting topic and format

“Overcoming the current limitations of our traffic models”

• Lectern sessions:
  • Extended abstract (up to 6 pages) will be reviewed before 1\textsuperscript{st} of July.
  • If desired, a complete paper can then be submitted a special TR-C issue.

• A classic paper retreat is planned.
  • A list of classic papers will be provided (please contribute to this list).
  • Ideally a set of 3-4 of them would be selected by PhD/post docs and the presentation would comprise the presentation of the initial paper, the description of its posterity, and the current research questions that are related to this paper.
Topic of the CfP for the MYM

- The TRB TFTC committee invites every paper aiming to identify the current and numerous limitations of traffic models and proposing some ways of overcoming those limitations. We welcome papers:
  - Identifying the current lacks of the available models and proposing improvements;
  - Confronting data analysis and traffic models at all scales from micro (vehicular trajectories) up to the network (MFD-NFD based models);
  - Proposing ways to extend models beyond their current main scope: vehicular traffic, to encompass other modes sharing road space and new types of vehicles (connected and automated vehicles).
  - More to be added?
2018 TFTC MYM organizing committee

- Sue Ahn
- Danjue Chen
- Wei long Jin
- Vikash Gayah
- Eric Gonzales
- Ilgin Guler
- Daiheng Ni
- Haizhong Wang
- Peter Wagner
- Winnie Daamen
- Costas Antoniou

- Vincenzo. Punzo
- Zuduo Zheng
- Mehdi Ekbatani
- Christine Buisson
2018 TFTC mid-year meeting (MYM)

- **Time line:**
  - Launching the MYM call for paper
  - Deadline for abstract submission
  - Notification of abstract acceptance
  - Mid-year meeting
TR-C special issue topic

- To be expanded from the mid-year meeting call.
TR-C special issue

• Proposed time line:
  • Submission website opens: February 1, 2018
  • Submission of full paper due: October 1, 2018
  • Feedback from first-round reviews: December 1, 2018
  • Return of revised manuscripts: February 1, 2019
  • Feedback from second-round reviews (if needed): March 15, 2019
  • Final manuscripts due: April 15, 2019
  • Final decision: May 15, 2019.

• Who should submit? Open to all. But those who present their abstract during the MYM will benefit of fruitful discussions.
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Outreach and Diversity Subcommittee

AHB45 Meeting
Washington DC, USA
January, 2017
Outreach and Diversity Subcommittee

- Continuation of Activities Through a Transition Period:
  - Transition Period: **Alireza Talebpour** taking the lead
  - Newsletter ([http://tftcnews.blogspot.com/](http://tftcnews.blogspot.com/)): 6 issues with each issue corresponding to two months
  - YouTube Channel ([https://www.youtube.com/user/AHB45/feed](https://www.youtube.com/user/AHB45/feed)) (Alireza Talebpour)
    - 8 interviews
  - Facebook Page (Meead Sabri: [https://www.facebook.com/AHB45](https://www.facebook.com/AHB45))
  - ISTTT 22 Webinar to Start Soon (Jorge Laval as Host)
Outreach and Diversity Subcommittee

• Special Thanks to:
  o Alireza Talebpour
  o Justin Schorr
  o Meead Saberi
  o Xiaopeng Li
  o Robert Bertini
  o Sue Ahn
  o Jorge Laval

(All TFT website/facebook page/newsletter/webinar contributors and readers)
Committee Website

- [Committee Website](http://tft.eng.usf.edu/)
- Anyone can contribute items
- Revised 2001 Monograph
- 1964 and 1975 Monographs
- Greenshields Symposium 2008 TR Circular
- Symposium Pages
- Greenshields Prize page
- Historic Papers
- Meeting Materials
- Volunteer?
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MFD Data Sets

- https://sites.google.com/a/jltraffic.com/mfd-dataquest/home
Liaison with Other Committees

- Highway Capacity Quality of Service Committee (AHB40)
  J. Sturrock/M. Hadi

- Task Force on System Simulations (AHB80T)
  R. Bertini/J. Sturrock/R. Cunnard

- Young Members Council
  E. Gonzales
International Liaison

- Massively Multiplayer Simulation Game Environment
  - L. Leclercq

- “Introduction to Traffic Flow Theory” by Victor Knoop
Traffic flow theory book

- Free to download
- Including ~250 questions
Announcements and Future Meetings

- AVS18 San Francisco, July 9-12, 2018
  - S. Hamdar
  - Propose workshop? Break-out session?

- TFTC Midyear Meeting, August 7-9, 2018

  - V. Punzo / M. Makridis

- ISTTT23 Lausanne, Switzerland, July 24-26, 2019
  - N. Geroliminis / L. Leclercq
Conference

• IX workshop on mathematical foundations of traffic
• *Mathematics Applied to Traffic and Transport Systems (MATTS)*
• Amsterdam, 13-15 June 2018 (tentative)
• Abstract due mid February
New Business

- 2019 Annual Meeting Call for Papers (Due in May)
- 2019 Workshop Proposals (Due in June)
Adjourn

Please don’t forget to sign in!