

The 8th International Symposium on Dynamic Traffic Assignment (DTA): DTA2020
Seattle, WA, USA
June 29 – July 1, 2020

Jointly organized by the University of Washington, University of California, Berkeley, SUNY Polytechnic Institute, and Penn State University

Dear colleagues and friends,

It is our pleasure to invite you to attend the 8th International Symposium on Dynamic Traffic Assignment (DTA2020) in *Seattle Washington, June 29 – July 1, 2020*.



The Symposium aims to foster excellence in dynamic traffic assignment (DTA) research and practice, and provides a forum for exchanging innovative ideas and challenges on DTA and related transportation science research problems. Previous symposia were held in Leeds (UK, 2006), Leuven (Belgium, 2008), Takayama (Japan, in 2010), Martha's Vineyard (USA, 2012), Salerno (Italy, 2014), Sydney (Australia, 2016), and Hong Kong (China, 2018).

The theme of DTA2020 is: “*Modeling Multi-Modal Dynamic Transportation Network Systems in Smart Cities in the Era of Connectivity, Automation, and Sharing.*” This is in response to the recent emergence and rapid development of new technologies and systems, such as connected and automated vehicles (CAVs), shared mobility, and smart cities, which provides great opportunities and grand challenges of DTA. They call for new theories, models, computational methods, and application scenarios to study multi-modal dynamic transportation networks with the emerging systems as essentially components and to apply the DTA methods in practical urban transportation networks. For this, topics such as new theories and methods to integrate emerging systems into dynamic transportation network analysis, methods to coherently integrate DTA models with increasingly available data, methods for large-scale computation, and real world DTA case studies are particularly encouraged, in addition to classical DTA topics such as

- The dynamic route and/or departure time choice
- within-day dynamic equilibrium
- day-to-day dynamic processes
- dynamic network loading and traffic simulation (micro/meso/macro)
- dynamic link flow models and node models



- solution algorithms and properties
- dynamic OD estimation
- dynamic traffic control and management
- online dynamic models
- activity-based modeling and analysis
- travel behavior and travel choice principles
- mathematical foundations for networked ODE/PDE systems with routing functions at nodes.
- Control theoretic approaches to network flow dynamics
- game theory on networks, Nash-Stackelberg games
- novel dynamic transport applications (smart transport, intelligent transportation systems, shared vehicles/taxis, connected and autonomous vehicles, electric and green vehicles, public transport, bike repositioning, dynamic vehicle routing)



Practitioners and academics are cordially invited to share their knowledge, experience and insights on the design, analytics, investigations, analysis, planning, operation, engineering, co-ordination and management of smart transport systems, taking into account the time-varying characteristics of travel demand and supply and the interdisciplinary nature of the subject. The Symposium will last three full days (from Monday to Wednesday). The technical program may include plenary sessions, paper presentations, and interactive sessions. A joint workshop on recent advances on modeling dynamic transportation networks is also planned during the second day of the Symposium.

For details, please visit the conference website at: <http://dta2020.com>.

Call for papers and presentations Authors are invited to submit extended abstracts of maximum 4 pages to the EasyChair paper management system.

Important Dates

Jun. 30, 2019: Online abstract submission starts

Nov. 15, 2019: Deadline for submission of extended abstracts.

Dec. 31, 2019: Notification of acceptance of extended abstracts.

Feb. 28, 2020: Deadline for submission of final extended abstracts and registration.

May 31, 2020: Deadline for submission of full papers for special issue(s).

Jun. 29 – Jul. 01, 2020: DTA2020.

Venue

UW Husky Union Building (HUB) at University of Washington, Seattle.

For enquiries, please feel free to contact:

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Please kindly help circulate this Call for Papers to your colleagues who may be interested; and we are looking forward to welcoming you in June 2020 in Seattle.

Yours sincerely,

Conference Co-Chairs

Dr. Xuegang (Jeff) Ban, University of Washington

Dr. Alexandre Bayen, University of California, Berkeley

Dr. Sarah (Xia) Yang, SUNY-Poly

Dr. Terry Friesz, Penn State University