Call for Papers

Special Section: Connected and Automated Transportation (CAT)

Aims & Scope

Over the past decades, transportation has become a very active innovation field with many emerging technologies and business models being developed and applied. This trend will continue with new initiatives and heavy investments on smart cities and infrastructure systems. According to Global Market Insights, smart transportation market size, estimated at approximately $75 billion in 2020, will grow at a compound annual growth rate of 8.3% to reach $121 billion in 2026. Public and private investments in transportation infrastructure and new technologies are substantial. In 2019, for example, the federal government spent $29 billion on infrastructure and transferred an additional $67 billion infrastructure spending to states. All these numbers show a strong signal of potential spending on transportation technologies and business model innovations. Such heavy investments will definitely trigger a substantial amount of research and engineering activities in transportation engineering.

To serve our readers better, Journal of Transportation Engineering, Part A: Systems (JTE Part A) creates this Connected and Automated Transportation (CAT) Special Section to attract high-quality scholarly research papers and facilitate knowledge exchange and experience sharing on emerging transportation technologies and business models that have the potential to generate significant impacts on infrastructure planning, design, development, operations, and maintenance. This CAT Special Section will focus specifically on the civil engineering aspects of connected and automated transportation technologies and business models. Specific topic areas include but are not limited to:

1. Connected and Automated Vehicles (CAVs) and Their Impacts
2. Infrastructure Requirements to Support CAVs
3. Smart System Control and Operations
4. Traffic and Traveler Sensing Technologies
5. Artificial Intelligence Applications
6. Big-data Analytics for Transportation
7. Mobility on Demand or Mobility as a Service
8. Vehicle Electrification
9. Ride-resource Sharing
10. Safety Improvement in the Context of CAV

continued on reverse
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Submission Guidelines

This is an ongoing call. The first CAT Special Section has been published in March 2022. We invite short Forum articles, Technical Notes to present research in progress, and full Technical Papers and Case Studies. Article type descriptions (including length limits) and preparation guidelines can be found in “Publishing in ASCE Journals: A Guide for Authors” (https://ascelibrary.org/doi/book/10.1061/9780784479018). Authors should follow the guidelines for ASCE journal submission and submit manuscripts electronically through JTE Part A’s Editorial Manager website: https://www.editorialmanager.com/jrnteeng/default.aspx

When submitting, authors should indicate in the submission questions that the paper is being submitted in response to this call for papers (CAT Special Section) and the Special Section Editor’s name. Please note that this is an invitation to submit papers for peer review and does not imply acceptance for publication.

Acceptance of submitted papers depends on the results of the normal refereed peer review process of the journal. We will make every effort for a rapid review process. All accepted papers submitted through this solicitation will be published in regular issues of the journal as they are accepted, and they will be added to a special online section (which is similar to a print version of a special issue) and will be indexed for citations like other regular journal papers of JTE Part A

Special Section Editor

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