

Transportation Research Part C: Emerging Technologies

Special Issue Call for Papers

Emerging Urban Mobility Services: Characterization, Modeling and Application

Description:

Ubiquitous computing/sensing, sharing economy, and social networking, all enabled by and integrated on the mobile platform, are driving an unprecedented wave of innovations in mobility services. Examples of such services are easy to bring to mind:

- On-demand personal mobility providers such as Uber, Lyft and Didi are threatening the very existence of the traditional taxi industry;
- Express, crowd-sourced urban delivery services such Sidecar and Postmates are poised to reshape not only the delivery business but also the retail industry.
- Public transporters such as Via (shared rides) and Divvy (bike sharing) promise a more sustainable and multi-modal passenger transport network.
- Real-time parking services such as SpotHero and Parker have completely reinvented user experience of parking.

Despite these new services increasingly becoming integrated components of the transportation system, the efforts to systematically understand, model and design them have just begun. The purpose of the special issue is to examine what has been accomplished in this quickly growing and evolving field and to stimulate interest in further research.

In this Special Issue, we invite contributions that aim to understand, model, design or apply emerging mobility services. While *emerging mobility services* is not a well-defined term in the literature, this Special issue is particularly interested in services that have one or more of the following features: (1) Real-time interactions/integration between service providers and users; (2) Shared information and/or resources; and (3) Enabled technologies of vehicle automation and vehicle-to-vehicle and vehicle-to-infrastructure connectivity. The submission of contributions providing rigorous analytical/computational frameworks or data-driven behavioral study is especially encouraged. Topics of interest include, but are *not* limited to, the following aspects of emerging mobility services:

- Design and planning (e.g. system design, pricing, user-provider interfacing);
- Real-time operation and monitoring;
- Public policy and regulation analysis;
- System evaluation (e.g. cost-benefits analysis, feasibility analysis, environmental impacts);
- Behavior research to understand preferences, acceptability and interaction with new services;
- Simulation to study emerging system performance under various scenarios;
- Business model design and analysis.

Important dates:

- Special issue article type becomes available in EES: February 1, 2016

- Submission deadline – June 30, 2016
- Author notification of first round of reviews – October 1st, 2016
- Author notification of second round of reviews (if needed) – January 31st, 2017
- Special issue completed – April 30, 2017

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Submission via EES

All papers should be submitted via the Transportation Research Part C online submission system. While submitting a paper to the special issue, please choose the article type 'VSI: Emerging Mobility Services otherwise your submission will be handled as a regular manuscript. All submissions will go through the journal's standard peer review process. Criteria for acceptance include originality, contribution, and scientific merit. For author guidelines, please visit the website of the journal at '<http://ees.elsevier.com/trc>'.

All inquiries regarding this call for papers should be directed to Guest Editors listed above or to the Editor-in-Chief, Dr. Yafeng Yin at yafeng@ufl.edu.