

Smart Freight Mobility – Current Applications and Guidelines for Future Development

Format: Half Day Workshop

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A rapid development of new technologies, in the last few years, has created opportunities for resolving many critical freight transportation challenges. As a main result of introducing new technologies, availability of information, their accuracy, and decision-making speed were significantly improved. These improved factors are from utmost importance for improving freight mobility and sustainability for both urban and rural areas. Creating smart mobility freight system can make powerful influence on the whole transportation network (improving transportation efficiency in real time, by reducing delay and travel time not only for freight but traffic in general, fuel consumption, noise and emission, etc.) not only on city and region but as well as state and country level. Smart mobility freight system comprises a variety of Intelligent Transportation Systems (ITS) applications. Freight Advanced Traveler Information System, Freight Dynamic Route Guidance, Drayage Optimization present some of already developed and integrated applications. Potential applications of automated and connected vehicles in freight transportation, deliveries by unmanned aerial vehicles (UAVs or drones), Freight Signal Priority, development, testing and implementation of the variety of new more comprehensive algorithms for logistic and relocation problems, etc. are some of the areas researched for future implementation in the Smart Freight Mobility System. This workshop, aims to address critical issues affecting planning, design, operation, and safety of the nation's intermodal freight transportation systems, in order to strengthen nation's economic competitiveness through efficient freight mobility. In addition, this workshop will focus on currently developed and deployed applications worldwide, current research in this area as well discuss the guidelines for future development. Break-out sessions will introduce participants with the whole concept of Smart Freight Mobility as well serve for information exchange of the research accomplishments.

List of Topics

- I. Fleet and Crew Management
- II. Modal/Intermodal Transportation
- III. Automated Terminals/Truck platooning
- IV. Game Theory Applications for Freight Logistics
- V. Freight and Intelligent Transportation Systems (ITS)
- VI. Enhancement of Transportation Network Analysis Tools for Truck-related Planning and Operations
- VII. Eco Driving Strategies and Optimization for more Sustainable Environment
- VIII. “Last Mile” problem in City Logistic System/City Logistics
- IX. Network Design and Planning
- X. Intelligent Transportation Systems and Humanitarian Logistics

Important Dates:

Here we have the Important Dates: <https://www.ieee-itsf2018.org/important-dates.html>

Regular & Workshops Abstracts Submission Deadline April 15, 2018

Acceptable Decision July 02, 2018

Final Abstract Papers September 09, 2018

Conference Dates November 4-7, 2018

Submissions

Interested participants are asked to forward a title and one or more pages abstract/summary of their talk and email directly to organizers at ekaisar@fau.edu, and ioannou@usc.edu