

# **Workshop: Smart Initiatives to Improve Last-Mile and 50 Feet Logistics to Improve Freight Fluidity**

**The 23<sup>rd</sup> IEEE International Conference on  
Intelligent Transportation Systems,  
Rhodes, GR**

**Sunday, September 20, 2020  
1:30pm-4:30pm**

**Evangelos I. Kaisar, PhD, Florida Atlantic University, presiding  
Petros Ioannou, PhD, University of South California, presiding**

**This workshop aims to address critical issues affecting planning, design, operation, and safety. Will also focus on identifying innovative strategies and technologies which are being developed to facilitate ‘last-mile’ delivery challenges .**

**A rapid development of new technologies, in the last few years, has created opportunities for resolving many critical freight transportation challenges. The workshop will establish a process to evaluate operational changes or technology applications which support the timely flow of freight movements through the transportation system. Additionally, it will deal with various newly emerged initiatives in the area of logistics and supply chain, such as sustainable logistics systems, methods for last mile deliveries and logistics terminals siting and operations**

**The involvement of speakers and participants from academia, federal and state agencies and industry will ensure a multidimensional discussion. The workshop break-out sessions will engage participants and facilitate research-oriented discussions. Break-out sessions will introduce participants with the whole concept of Smart Freight Mobility as well as serve for information exchange of the research accomplishments.**

**Freight Mobility Research Institute (FMRI)**

# Agenda

## **1:30 pm – 1:40 pm Welcome and Overview of Workshop**

Dr. Evangelos I. Kaisar, FAU & Dr. Petros Ioannou, USC

## **1:40 pm - 2:40 pm Last Mile Deliveries**

### **On Demand Warehousing Techniques for City Logistics**

Elpida Xenou, Leonidas Parodos/,Georgia Ayfantopoulou, Center for Research & Technology, Hellas

### **A Critical Analysis and Synthesis of Recent Research Efforts.**

Georgia Ayfantopoulou, Ioannis Mallidis, Aristos Halatsis, Elpida Xenou, Center for Research & Technology, Hellas

### **Shared Locker System Design and Truck Routing for the Last-Mile Delivery**

Yufeng Zhang, Alireza Khani, University of Minnesota, Twin Cities

## **2:45 pm - 4:20 pm Smart Initiatives**

### **Consumer demand for autonomous delivery robots**

Sabyasachee Mishra, University of Memphis

### **Last-Mile Operation in Smart Mobility Freight System:**

### **Planning Freight Vehicles Along Consecutive Signalized Intersections**

Xiao Xiao, Texas A&M University System, College Station

### **Evaluation of Freight and Transit Signal Priority Strategies in Multi-Modal Corridors: Development of FSP and TSP Guidelines**

Taraneh Ardalan, University of Pittsburgh

### **Autonomous Delivery Vehicle in Urban E-Grocery Delivery: A Two-Echelon Vehicle Routing Problem**

Dan Liu, Florida Atlantic University

## **4:20 pm – 4:30 pm Research Prioritization Discussion**

Dr. Evangelos I. Kaisar, FAU & Dr. Petros Ioannou, USC