

Abstract

Safe and efficient Advanced Air Mobility (AAM) demands coordinated efforts across multiple fronts. This talk will focus on two key aspects: AAM digital infrastructure and route planning. A critical component of the digital infrastructure is wireless connectivity within the transportation system. While this is a nice-to-have addition in terrestrial transportation, it becomes a safety-critical necessity in AAM. Meanwhile, although route planning has been extensively studied for ground transportation, it encounters entirely new challenges in the AAM context, driven by unprecedented levels of stringency. This presentation aims to provide an overview of these topics and highlight our recent efforts in addressing the associated challenges.