

Wednesday, Oct. 1, 2025
11:00 AM - 12:00 CST
ONLINE

AERIAL AND RIS-ASSISTED EDGE COMPUTING FOR INTELLIGENT TRANSPORTATION SERVICES

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The emergence of Intelligent Transportation Systems (ITS) has driven the deployment of connected and autonomous vehicles that support computation-intensive and delay-sensitive applications. This development has highlighted the challenges posed by the limited resources of user devices in vehicular networks. To address these challenges, innovative solutions are needed, particularly in the context of 6G, enabled by aerial platforms of Unmanned Aerial Vehicles (UAVs) and High-Altitude Platform Stations (HAPS), and by reconfigurable intelligent surfaces (RIS). In this context, we will formulate the task offloading problems of vehicular networks when supported by aerial platforms equipped or not with RIS, then we will discuss different solutions that can be adopted to enhance the tasks success rate while preserving energy. Our proposed methods represent a significant advancement in managing ITS services through cooperative UAV-HAPS-RIS frameworks.



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