Special Issue

Artificial Intelligence Application on Intelligent Transportation System

Message from the Guest Editors

The Intelligent Transportation System (ITS) stands as a comprehensive and expansive transportation and management system, encompassing a multitude of domains. Its central focus lies in the intricate interplay between people, vehicles, and road infrastructure, harnessing the capabilities of information technology to elevate traffic efficiency and safety. As artificial intelligence (AI) technology continues to advance, the manifold applications of AI have made significant strides in enhancing the efficiency, safety, and sustainability of transportation networks within the ITS paradigm. AI has emerged as a pivotal force in addressing the intricate challenges posed by the future of urban transportation. Amidst the myriad constituents of ITS, the ongoing trend towards the smartification of transportation infrastructure (including roads, bridges, tunnels, and more) and the relentless pursuit of autonomous driving technology in vehicles stand out as current focal points in ITS research. This Special Issue endeavors to compile the latest applications of artificial intelligence technology in both intelligent transportation infrastructure and autonomous driving.

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