

Special Issue

Role of Lidar and Microwave Photonic Radar Based Sensors for Autonomous Vehicles

Message from the Guest Editors

Autonomous vehicles (AVs) have become a prominent sector of the automobiles industries. The last decade has witnessed remarkable trends in research leading to developing AVs as a prospective answer to current transportation issues. Implementing AVs can reduce emissions and energy ingestion, which further decreases ecological degradation. Moreover, it can improve transportation efficiency and accessibility, ease traffic congestion, and enhance road safety. Light detection and ranging (LiDAR) sensors and photonic radars are considered essential sensors for achieving full autonomy of AVs that can produce spatial data with accuracy and precision. This can help localize and track which can tremendously help localize and track a running vehicle. Featured with such AV utilities and requirements, LiDAR/photonic radars are a significant alternative to conventional radars and thus immensely popular among AV manufacturers and researchers across the world. This Special Issue is dedicated to recent advancements and future implications in photonic-based sensors including LiDAR technology for AV vehicles.

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