Special Issue

Solid-State LiDAR Sensors

Message from the Guest Editors

Light detection and ranging (LiDAR) sensors have attracted significant research interest for various applications, such as advanced driver assistance systems (ADAS), autonomous vehicles, robots, drones, mobile phones, etc. In particular, cost-effective and compact LiDAR sensors become essential for the development of these applications. Nonetheless, current LiDAR sensors require a mechanical scanning system and can thus hardly satisfy their stringent requirements.

Single-photon avalanche diodes (SPADs), silicon photomultipliers (SiPMs), and avalanche photodiodes (APDs) especially based on standard CMOS technologies are considered the most crucial devices for solid-state LiDAR sensors because they are able to not only detect very low-intensity signals but also provide cost-effectiveness and high-volume manufacturing as CMOS is a universal platform. Recent advances in the fields of CMOS-based SPADs/SiPMs/APDs can certainly facilitate the realization and development of cost-effective and compact solid-state LiDAR sensors.
More infomation please visit here

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