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Recent Trends of Home-Monitoring LiDAR Sensors

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Deadline for manuscript submissions:
closed (20 October 2023)

Message from the Guest Editors

Dear Colleagues,

Light detection and ranging (LiDAR) sensors have attracted significant research interests for various applications. In particular, cost-effective and compact LiDAR can become crucial for the development of short-range home monitoring sensors in the urgently demanding applications of elder-care systems. Yet, current LiDAR sensors require a mechanical scanning system, and thus can hardly satisfy their stringent requirements. Hence, solid-state LiDAR sensors based upon semiconductors have recently been paid a great deal of attention as a key solution.

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.

The goal of this Special Issue is to invite to the submission of high-quality, state-of-the-art research articles that deal with challenging issues in home-monitoring LiDAR sensors. We solicit original papers of unpublished and completed research that are not currently under review elsewhere.

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Message from the Editor-in-Chief

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