Special Issue

Machine Learning and Embedded Computing in Advanced Driver Assistance Systems (ADAS)

Message from the Guest Editors

Advanced Driver Assistance Systems (ADAS) are being integrated into more and more vehicles, which offer enhanced safety (collision avoidance, route following, obstacle detection, automatic braking), driver assistance (lane keeping, lane following, adaptive cruise control), etc. Fully autonomous vehicles are still not fully available and much research is being conducted in these areas. Three main things are driving this revolution: (1) The availability of inexpensive sensors such as cameras, LiDARs, automotive radars, etc. (2) advanced machine learning methods such as deep learning, and (3) inexpensive and highly capable computing platforms that can handle large amounts of data and processing, utilizing both CPUs and GPUs. This Special Issue aims to cover the most recent advances in autonomous and automated vehicles of all kinds (commercial, industrial) including their interaction with other vehicles, road users or infrastructure. Novel theoretical approaches or practical applications of all aspects of ADAS systems are welcomed. Reviews and surveys of the state-of-the-art are also welcomed.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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