

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.

Guest Editors

Prof. Dr. John E. Ball

Department of Electrical and Computer Engineering, Mississippi State University, 406 Hardy Road, 216 Simrall Hall, Mississippi State, MS 39762, USA

Dr. Bo Tang

Department of Electrical and Computer Engineering, Mississippi State University, Starkville, MS 39762, USA

Deadline for manuscript submissions

closed (31 December 2018)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/12788

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

[mdpi.com/journal/
electronics](http://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](http://mdpi.com/journal/electronics)

About the Journal

Message from the Editor-in-Chief

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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPIPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

