



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

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)**

### Message from the Guest Editors

Dear Colleagues,

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.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

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

## 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 guest-edited by leading experts in selected topics of interest.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)