



Advancements in Connected and Autonomous Vehicles

Guest Editor:

Dr. Arman Sargolzaei

Department of Mechanical
Engineering, University of South
Florida, Tampa, FL 33620, USA

Deadline for manuscript
submissions:

30 November 2024

Message from the Guest Editor

Dear Colleagues,

Connected autonomous vehicles (CAVs) hold immense promise in revolutionizing transportation, offering benefits in energy efficiency, crash prevention, traffic management, etc. Through real-time data exchange, CAVs optimize routes and driving behavior, resulting in reduced fuel consumption and emissions, while their interconnectedness enables crash prediction and prevention, potentially saving countless lives. Furthermore, CAVs have the potential to alleviate traffic congestion by coordinating movement and streamlining traffic flow.

In light of these challenges, this Special Issue welcomes researchers to contribute their valuable findings to address the multifaceted issues surrounding CAVs. Research focusing on security solutions, safety standards, testing methodologies, verification techniques, energy-efficient solutions, and infrastructure readiness will play a pivotal role in unlocking the full potential of CAVs. By surmounting these challenges, researchers can pave the way for a safer, more energy-efficient, and seamlessly integrated autonomous future in transportation.





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

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