

Special Issue

Advances in Electrical and Autonomous Vehicles: Trends, Challenges and Prospects

Message from the Guest Editors

Among the pillars on which the vehicles of the future will be based are electrification and automation. These two aspects of vehicle development have significant technological implications and still present significant challenges that require research and development. In the case of electrification, different forms of energy storage can be used depending on the type of vehicle to achieve greater efficiency, storage density, safety, etc. The physical configuration of the powertrain and its control strategies can also be optimized to achieve greater autonomy and operating ranges that allow for extended component lifespans. Automated driving presents clear challenges related to environmental perception, with the need to achieve precise situational awareness and robust and explainable decision-making. New sensors, algorithms for processing information obtained from them, and sensor fusion are some areas of development related to information capture. This Special Issue will consider all kinds of cutting-edge technological developments related to the electrification and automation of road vehicles.

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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.

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