Special Issue

Electronic Systems and Energy Harvesting Methods for Automation, Mechatronics and Automotive

Message from the Guest Editors

Smart and connected vehicles are becoming the “ultimate electronic devices”, and electronic technologies are the new trend in the automotive industry, with the prediction that automotive electronics will represent nearly a third of the total cost of the entire car. The increasing number and improved performance of on-board sensors and electronic devices have led to new advanced functionalities in vehicles, including adaptive cruise control, park assistance, lane-keep assistance, pedestrian detectio and traffic-sign recognition. Electronics systems for industrial and home/building automation are attracting more and more the attention from academia, industry and standards development organizations. in this context, the design of smart and centralized energy monitoring and management systems as well as of new sensors and wireless devices for active safety and control are crucial. The research into new energy harvesting techniques and miniaturized transducers for automotive and mechatronics, as well as the development of new electronics solutions and wireless sensor networks fed by energy harvesters is of great interest among researchers and companies.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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