Special Issue

Neural Networks in Robot-Related Applications

Message from the Guest Editors

As robots (being mobile or not) are coming out of factories and well-structured environments, a certain level of AI has to be embedded into them to ensure their safe and desired behavior. This can be achieved with improved interpretation of sensor data, accessing data that are not readily available with onboard sensors, or with better planning of future control actions to achieve the final goal. Various neural network architecture approaches have recently demonstrated great potential and promise in such and similar scenarios. Thus, this Special Issue addresses all types of such neural networks related to robot applications. Topics of interest may include but are not limited to original contributions for the following:

- Neural-network-based approaches for control of mobile and static robots;
- Neural networks for design of soft sensors in robotics;
- Neural-network-based interpretation of sensor data;
- Neural-network-based improvement of sensor performance;
- Quantization of neural networks in robotics;
- Innovative applications of neural networks in robotics

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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.

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