Special Issue

Deep Learning for “Intelligent” Robots

Message from the Guest Editors

In recent years, deep learning models represented by convolutional neural networks (CNNs), long short-term memory (LSTM) networks, and graph neural networks (GNNs) have achieved remarkable progress in many fields. The neural network exhibits a strong data nonlinear fitting ability, feature extraction and representation ability; flexible structure design ability; and cross-scenario generalization capability. Research areas may include: Intelligent robot for underwater exploration; Visual robot for navigation; Deep learning-based intelligent control system; Reinforcement learning-based path planning; Development and application of inspection and maintenance robot; Image processing driven by confrontation generation network; Optimization and generalization in deep learning; Hyper-parameters setting in deep learning for robot control; Architecture design in deep learning for robot operation; Object detection; 3D reconstruction; Image classification.

Guest Editors

Dr. Mingqiang Yang

Prof. Zhiguo Yu

Dr. Qinghe Zheng

Prof. Dr. Zhongjun Ding

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics

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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.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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