## Deep Learning for "Intelligent" Robots

Guest Editors:

**Dr. Mingqiang Yang**

**Prof. Zhiguo Yu**

**Dr. Qinghe Zheng**

**Prof. Dr. Zhongjun Ding**

Deadline for manuscript submissions:
**15 September 2024**

### 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

Special Issue

## 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, and other databases.
**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us