



## Deep Learning for “Intelligent” Robots

Guest Editors:

**Dr. Mingqiang Yang**

**Prof. Zhiguo Yu**

**Dr. Qinghe Zheng**

**Prof. Dr. Zhongjun Ding**

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### 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





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## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

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Electronics Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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