Deep Learning for "Intelligent" Robots

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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

Special Issue

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Message from the Editor-in-Chief

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