Special Issue

Advanced Machine Learning for Intelligent Robotics

Message from the Guest Editors

Recently, machine learning represented by deep learning has developed rapidly and has been successfully applied to various fields, including computer vision, natural language processing, and decision making. Intelligent robotics is one of the promising applications of machine learning, because intelligent robots need not only robot hardware design and control but also robot vision, robot sensor fusion, robot navigation, decision making, and human-robot interaction. This may seem similar to applying machine learning to traditional fields such as computer vision and to intelligent robots, but there are notable differences because we need to consider the characteristics of robots. Therefore, this Special Issue focuses on research into applying machine learning to robotics. The scope of this Special Issue covers:

- machine-learning-based robot control
- robot navigation
- robot vision
- robot sensor fusion
- robot decision making
- human-robot interaction
- other intelligent robotics applications based on machine learning

Guest Editors

Dr. Ji-Hyeong Han

Dr. Inbae Jeong

Prof. Dr. Ki-baek Lee

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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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