Special Issue

Lifelong Machine Learning-Based Efficient Robotic Object Perception

Message from the Guest Editors

Lifelong machine learning aims to utilizes knowledge from past tasks to efficiently and effectively learn new tasks over a lifetime, which is more suitable for the robotic learning scenarios, i.e., perceive the objects or environments in a never-ending manner. Then, the question emerges: "how to lifelong perceive objects with a robot?" To answer this question, we invite scientists, researchers, and robotic specialists together with academics to share their insights of the lifelong robot perception learning. What will the robot learn in a lifelong manner? What kind of knowledge or experience is most suitable for robot perception? How does the robot learn when encountering a new task? Meanwhile, humans can learn from just one or a handful of examples (i.e., few- or zero-shot learning) with visionaudio-touch senses; can robot achieve very long-term learning in this manner as humans do? All of these are important discussions at the moment and this Special Issue will help all those interested in the topic to promote their vision and ideas.

Guest Editors

Dr. Gan Sun

Dr. Hang Zhong

Dr. Qianqian Wang

Deadline for manuscript submissions

closed (15 September 2024)



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/176081

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

mdpi.com/journal/electronics





Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



About the Journal

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.

Editor-in-Chief

Prof. Dr. Flavio Canavero

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

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

