Special Issue

Using Data Augmentation for Vision-Based Deep Reinforcement Learning

Message from the Guest Editors

The aim of this Special Issue is to facilitate the advancement of research in the field of vision-based deep RL by addressing critical challenges and opening new avenues for investigation. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Techniques and methodologies for data augmentation in vision-based systems.
- Applications of RL in environments with visual input.
- Performance comparison of RL models with and without data augmentation.
- The impact of synthetic and real-world data on the learning efficiency and accuracy of RL systems.
- Case studies detailing the implementation of vision-based RL systems in various domains.
- Theoretical insights or reviews on the convergence properties of augmented RL algorithms.
- Innovations in hardware and software that enhance the training of RL systems using augmented data.

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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 guestedited by leading experts in selected topics of interest.

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