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Using Data Augmentation for Vision-Based Deep Reinforcement Learning

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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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Special Issue



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Message from the Editor-in-Chief

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