

PAPER SUBMISSION

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Conference Management Toolkit - Submission Summary

Submission Summary

Conference Name

5th IEEE India Council International Subsections Conference 2024

Track Name

Track 6 : Next Generation Computing and Applications

Paper ID

776

Paper Title

Exploring The Solar System using Deep Reinforcement Learning via ML Agents in Unity

Abstract

In this ground-breaking research, we take a trip through space with the "Solar System Adventure," a ground-breaking project that combines cutting-edge artificial intelligence with realistic virtual environments to mimic space exploration. We create an autonomous spaceship agent by utilizing deep reinforcement learning and Unity's powerful platform for machine learning. Through smart decision-making, this agent gains the ability to maneuver through the complex landscape of a digitally rendered solar system, dodging hazards and arriving at predetermined planetary destinations. The spaceship represents the fusion of AI's adaptability with the limitless possibilities of space exploration by adjusting its trajectory based on dynamic interactions within the virtual cosmos through a novel reward-based system.

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Primary Subject Area

Computational Intelligence

Submission Files

Exploring the Solar System using Deep Reinforcement Learning via ML Agents in Unity
IEEE.pdf (341.9 Kb, 3/25/2024, 1:42:07 PM)

Submission Questions Response

<https://cmt3.research.microsoft.com/INDISCON2024/Submission/Summary/776>

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