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AI ETHICS AND HUMAN RIGHTS IN SPACE ACTIVITIES: SAFEGUARDING LIFE AND
ACCOUNTABILITY**Abstract**

The ongoing integration of Artificial Intelligence (AI) across space activities underscores intersections between the ethical implications of its use and its intricate relationship with human rights; in supporting a responsible and sustainable outer space environment. Beyond technical advancements, the ethical dimension of AI in space governance also bears relevance. This paper explores the convergence of AI ethics and human rights, emphasizing their significance in ensuring the safety, accountability, and protection of life in space exploration.

Drawing upon ethical frameworks, legal principles, and human rights instruments, this paper examines the ethical imperatives inherent in AI's role in space activities. It analyzes the intersection of AI ethics and human rights, with a specific focus on the right to life, and explores strategies to uphold ethical AI practices while safeguarding human rights in space.

As AI becomes increasingly integrated across outer space activities its ethical implications gain prominence, particularly concerning the right to life. AI-driven decision-making in space operations can directly impact human safety, making ethical considerations imperative. Under international human rights law, evolving jurisprudence surrounding the right to life necessitates robust safeguards and responsible practices across space activities to prevent harm to humans and ensure their well-being.

This is reinforced by ethical AI principle - including transparency, accountability, and fairness. These are indispensable in mitigating risks and upholding human rights in space. The design and use of AI systems must align with evolving AI ethical practices and legal principles that in prioritizing the safety and dignity of individuals, while aligning with the overarching goal of promoting and protecting human life.

The convergence of AI ethics and human rights is indispensable in shaping the future of space activities. Upholding ethical AI practices will ensure the safety and well-being of astronauts while simultaneously reinforcing accountability and transparency across space governance. In prioritizing the human right to life, stakeholders can navigate the ethical complexities of AI in space activities and foster a more equitable and sustainable space exploration paradigm.