

Balancing AI and Biodiversity Conservation Efforts

Fazal Ullah¹, Saddam Saqib¹, Tian-Ming Wang², Hong-Fang Wang², Meng-Ying Li¹,
Hong-Yan Tao¹, and You-Cai Xiong¹

¹Lanzhou University

²Beijing Normal University

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Abstract

Artificial Intelligence (AI) is increasingly pivotal in biodiversity conservation, offering methodologies for ecosystem monitoring and species response prediction. However, its integration first meets ethical challenges, including algorithmic bias and data privacy concerns, which may exacerbate existing inequalities in conservation efforts. To effectively deploy AI, it is then essential to establish robust frameworks promoting transparency and inclusivity. Interdisciplinary collaborations among ecologists, data scientists, policymakers and local communities are also crucial for navigating these complexities responsibly. When prioritizing ethical considerations alongside technological advancements, stakeholders would be able to leverage AI's capabilities to enhance conservation outcomes. This viewpoint emphasizes urgent need for comprehensive governing AI use in conservation practices to ensure biodiversity amid rapid technological innovation.

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