

AI助力森林防火

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摘要: 随着人工智能技术的发展, AI 已经逐渐应用于各行各业中。森林火灾一旦发生, 将会给生态环境和人类生活带来巨大损失。课题组十余年来致力于将人工智能方法和技术与森林防火相结合, 本文将从森林火灾灾前预测、灾中监测和灾后评估的不同阶段, 介绍课题组多年的科研积累和创新成果, 综述 AI 应用于森林防火的挑战和解决方案。

Integrating forest fire with AI

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Abstract: With the development of artificial intelligence technology, AI has gradually been applied to various industries. Forest fires, once they occur, can cause tremendous damage to the ecological environment and human life. For more than a decade, our research group has been committed to integrating artificial intelligence methods and technologies with forest fire prevention. This article will introduce the research group's years of scientific research accumulation and innovative achievements from the different stages of pre-disaster prediction, disaster monitoring, and post-disaster assessment of forest fires, and review the challenges and solutions of applying AI to forest fire prevention.