

Building a forest fire warning system

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Abstract: In the context of increasingly severe wildfires, this topic focuses on building and deploying an early warning system to mitigate the impact of wildfires. The main objective is to develop an image recognition algorithm from satellites combined with meteorological models to predict areas with potential risk. The research methodology includes collecting real-world data, theoretical analysis, and application testing under actual conditions in several key forests. This system is expected to improve wildfire prediction capabilities, thereby supporting firefighting forces to operate more effectively.

Keywords: Forest fire warning, satellite imagery, meteorological model