EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRE

Date	19 September 2022
Team ID	PNT2022TMID21968
Project Name	Project - Emerging Methods for Early Detection
	of Forest Fires
Maximum Marks	2 Marks

PROPOSED SOLUTION:

Technologies, such as drones, robots, and satellites, are all being used to detect, impede, and douse fires. The user interacts with a web camera to read the video. Once the input image from the video frame is sent to the model, if the fire is detected it is showcased on the console, and alerting sound will be generated and an alert message will be sent to the Authorities.

PARAMETERS	DESCRIPTIONS
Problem Statement	A forest fire risk prediction algorithm,
	based on support vector machines, is
	presented. The algorithm depends on
	previous weather conditions in order to
	predict the fire hazard level of a day.
Idea (feasibility of idea)	Use computer vision methods for
	recognition and detection of smoke or
	fire, based on the still images or the
	video input from the drone cameras
Novelty	Real time computer program detect
	forest fire in earliest before it spread to
	larger area.
Social impact	Blocked roads and railway lines,
	electricity, mobile and land telephone
	lines cut, destruction of homes and
	industries.
Business Model	The proposed method was implemented
	using the Python programming language
	on a Corei3or greater.
Scalability	Computer vision models enable land
	cover classification and smoke detection
	from satellite and ground cameras.