

Brainstrom: Emerging methods for early detection of forest fires

Questions

What will we...

Controlling the wildfires using a application we are building.

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Detection of forest fire is done through the deployment of aerial image.

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Optimal/thermal cameras deployed on the obsevation towers together.

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The fire and smoke areas are identified through the exteaction of both static and dynamic.

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How might we...

Reduce the potential damage as well as coast of fire fighting.

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Collected data in real time provide fast intervention of relevant servies to extinguish fire.

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Early detection of fire leads to protection of biotic and abiotic factors.

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Satellite systems identify infrared signatures, while optical system look for smoke plumes.

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How will we...

Video input is captured from the camereaa and other inputs are calculated by sensors

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If there is any fire then it automatically provide alert signal with location.

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deep learning model checks for the exsiting of fire.

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If any cause of fire no major damage.

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Who will...

VEERAMANI P is team leader and function according to team members opinion.

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VAISHNAVM is SUBASHI B is responsible for documenting and analysing the project works

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VASIKAR is our team formulator of our team developing the applications.

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SWEATHA SRIV V act as end user who will be checking the software and report based on analysing

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Solo brainstorming



VEERAMANI



VIJAY
Vasika



SUBASHI
Vaishnavi



SRIDHAR
Sweathashree

Notes

Large-scale laundry facilities leverage the Industrial Internet of Things (IIoT) with early fire detection technologies, like infrared cameras to mitigate damages and loss associated with laundry fires.

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Notes

Combustible fabrics, the possible presence of flammable or reactive contaminants, and unmonitored or uncontrolled heating of laundry piles increase the potential for spontaneous combustion.

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Notes

There are various fire detection sensors available today that alert facility managers of the formation of fire with various detection timing during the formation of a fire.

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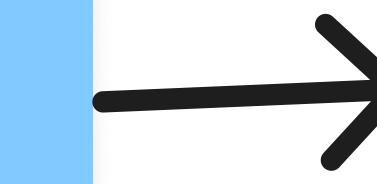
Notes

IR camera systems are the first to alert before a fire develops. They see a warming-up of material early in the fire development process before forming smoke particles or flames. IR cameras operate on the heat transfer principle of radiation.

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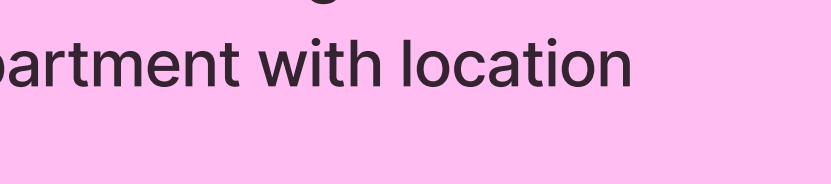
Group brainstorming

How will you organize early fire detection?



By using IR camera and smoke detectors. Alert signal will sent to fire department with location

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Why the fire has to be detected early?



What is the purpose for doing early fire detection?



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With this process we will reduce the major damage and cause to the biotic and abiotic things.



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Early detection of fire is the key to save huge losses in terms of environment, property and lives.



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