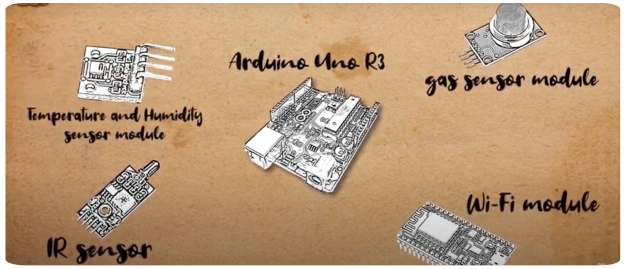
DetectIT | Save our forests



DecectIT is forest fire detection device which detects fire by using different sensors and sends nottification to the application.

Fires in the Republic of Croatia are a big problem for forests, given that fire brigades have about 3.000 interventions per year. Average burned area per year is 14.278 ha of forest land. DetectIT provides information of the current situation in the forest area (level of temperature, humidity, carbon monoxide). Device secures fast information about the occurrence of a fire and provides all important data. Devices are located 100-300 meters away in the forest area and communicate with each other via radio waves. Communication between devices can reach even several kilometers so it is possible to cover very large area. Each device has one or more sensors. When the device receives an icreased concentration of flammable gas or smoke, it sends a signal to the other device about occurrence of a fire.

Currently, for sending notification about occurrence of fire, device uses 4G network. In the future for notification sending, it is planned to use the 5G network which can send notification in a shorter time period. Also, it is planed to spread the use of device i.e. setting device in households. Prototype of device is installed and tested on the forest area. Device is developed by high school students of Gymnasium Velika Gorica, Croatia. Group of students signed up on international competition and won 2nd place.

DETALJER

OPPRINNELSE FOR TRE

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TYPE TRE

--

TYPE TRE INVOLVERT

--

PåVIRKNING På MILJø OG BIOLOGISK MANGFOLD

--

INNTEKTSEFFEKT

--

UTNYTTELSESPOTENSIAL

--

HUB

Sørøst-knutepunkt

ØKONOMISK PåVIRKNING

--

SPESIFIKKE KUNNSKAPSBEHOV

--

MOBILISERINGSPOTENSIAL

--

BæREKRAFTPOTENSIAL - VERDI

Veldig positivt

ENKEL IMPLEMENTERING

--

ENKEL IMPLEMENTERING - EVALUERING

Lett

VIKTIGE FORUTSETNINGER

--

TYPE BEGIVENHET DER DENNE BPI HAR BLITT OMTALT

Studiebesøk (T2.3)

EFFEKT På ARBEIDSPLASSER

--

KOSTNADER MED IMPLEMENTERING (EURO - €)

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MER INFORMASJON

UTFORDRING ADRESSERT

1. Forbedre skogens robusthet og tilpasningsevne til klimaendringer

DOMENE

Skogforvaltning, skogskjøtsel, økosystemtjenester

TYPE LØSNING

Sensorer, måleinstrumenter

NØKKELORD

Fire detection

sensors

automatic messaging.

DIGITAL LØSNING

Ja

INNOVASJON

Ja

OPPRINELSESLAND

Kroatia

POTENSIALE

Regional/deler av landet

START OG SLUTT åR

2019 -

KONTAKT INFORMASJON

EIER ELLER FORFATTER

Gymnasium Velika Gorica

http://gimnazija-velika-gorica.skole.hr/

RAPPORTØR

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REFERENCES AND RESOURCES

HJEMMESIDE (HOVEDSIDE)

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PROSJEKTETS HJEMMESIDE

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REFERANSE TIL PROSJEKT

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RESSURSER

Application view

LOGO FOR BESTE PRAKSIS

LOGO FOR HOVEDORGANISASJON

PROSJEKT SOM DETTE FAKTAARKET ER OPPRETTET UNDER

Rosewood 4.0

INNLEGGSDATO

13 sep 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY