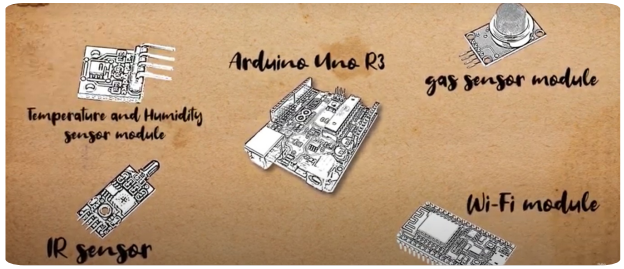
DetectIT | Save our forests



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.

PODROBNOSTI

IZVOR LESA

--

TIP LESA

--

VRSTA OBRAVNAVANEGA LESA

--

VPLIV NA OKOLJE IN BIODIVERZITETO

--

VPLIV NA PRIHODKE

--

POTENCIAL IZKORIŠČANJA

--

VOZLIŠČE

Jugovzhodno vozlišče

GOSPODARSKI VPLIV

--

POTREBNO SPECIFIČNO ZNANJE

--

POTENCIAL ZA MOBILIZACIJO

--

TRAJNOST - VREDNOST

Zelo pozitivno

ENOSTAVNOST IZVEDBE

--

ENOSTAVNOST IZVEDBE - OCENJEVANJE

Enostavno

KLJUČNI PREDPOGOJI

--

VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI

Študijski obisk (T2.3)

VPLIV NA DELOVNA MESTA

--

STROŠKI IZVEDBE (EURO - €)

--

VEČ PODROBNOSTI

IZZIV

1. Izboljšava odpornosti gozdov in prilagoditev na klimatske spremembe

DOMENA

Gojenje gozdov, gospodarjenje z gozdovi, odpornost, ekosistemske storitve

TIP REŠITVE

Senzorji, merilna oprema

KLJUČNE BESEDE

Fire detection

sensors

automatic messaging.

DIGITALNE REŠITVE

Da

INOVACIJA

Da

IZVORNA DRŽAVA

Hrvaška

OBSEG UPORABE

Regionalni

ZAČETNO IN KONČNO LETO

2019 -

KONTAKTN PODATKI

LASTNIK OZ. AVTOR

Gymnasium Velika Gorica

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

POROČEVALEC

Competence Centre Ltd. for research and development

PhD. Ivan Ambroš

ambros@cekom.hr

REFERENCES AND RESOURCES

SPLETNA STRAN

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SPLETNA STRAN PROJEKTA

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REFERENCA PROJEKTA

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VIRI

Application view

LOGOTIP DOBRE PRAKSE



LOGOTIP GLAVNE ORGANIZACIJE

PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood 4.0

DATUM OBJAVE

13 Sep 2021





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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

