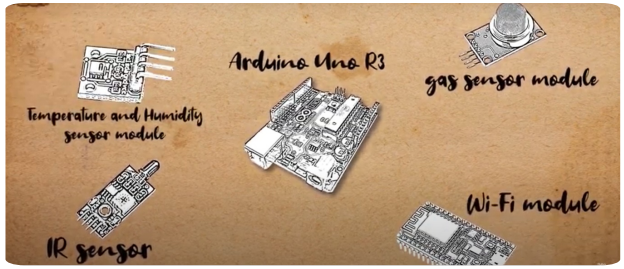
DetectIT | Save our forests



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

PôVOD DREVA

--

DRUH DREVA

--

UVAžOVANý DRUH DREVA

--

VPLYV NA ŽIVOTNé PROSTREDIE A BIODIVERZITU

--

DOPAD NA PRíJMY

--

POTENCIáL VYUžITIA

--

ROZBOčOVAč

Juhovýchodné centrum

EKONOMICKý VPLYV

--

POTREBA šPECIFICKýCH ZNALOSTí

--

MOBILZAčNý POTENCIáL

--

POTENCIáL UDRžATEľNOSTI - HODNOTA

Veľmi pozitívne

UľAHčENIE IMPLMENTáCIE

--

UľAHčENIE IMPLMENTáCIE - HODNOTENIE

Easy

KľúčOVé PREPOKLADY

--

TYP PODUJATIA, NA KTOROM BOL TENTO BPI PREZENTOVANý

Návšteva v rámci štúdie (T2.3)

DOPAD NA ZAMESTNANOSť

--

NáKLADY NA IMPLEMENTáCIU (EURO - €)

--

VIAC INFORMáCIí

RIEšENá VýZVA

1. Zlepšenie odolnosti lesov a adaptácie na zmenu klímy

DOMAIN

Lesné hospodárstvo/hospodárska úprava lesa, pestovanie lesa, ekosystémové služby, odolonosť

TYP RIEšENIA

Senzory, meracie prístroje/meracie vybavenie

KľúčOVé SLOVá

Fire detection
sensors
automatic messaging.

DIGITALNE RIEšENIE

áno

INOVáCIE

Áno

KRAJINA PôVODU

Chorvátsko

ROZSAH APLIKáCIE

Regionálny/

ZAčIATOK A KONIEC ROKA

2019 -

KONTAKTNé úDAJE

VLASTNíK ALEBO AUTOR

Gymnasium Velika Gorica

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

REPORTéR

Competence Centre Ltd. for research and development

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REFERENCES AND RESOURCES

HLAVNá WEBSTRáNKA

--

PROJEKTOVá WEBSTRáNKA

--

REFERENCIA PROJEKTU

--

ZDROJE

Application view

LOGO NAJLPEŠEJ PRAXE

LOGO HLAVNEJ ORGANIZáCIE



PROJEKT, V RáMCI KTORéHO BOL TENTO INFORMAčNý PREHľAD VYTVORENý

Rosewood 4.0

DáTUM ODOSLANIA

13 sep 2021





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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

