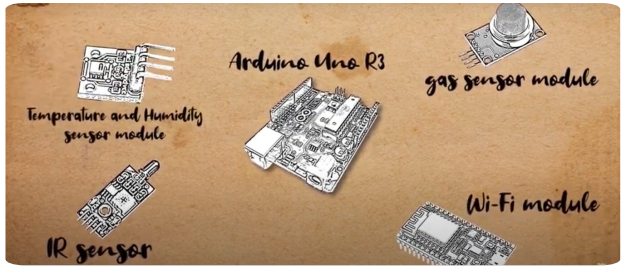
DetectIT | Save our forests



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.

DETALLES

ORIGEN DE LA MADERA

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TIPO DE MADERA

--

TIPO DE MADERA AFECTADA

--

IMPACTO EN EL MEDIO AMBIENTE Y LA BIODIVERSIDAD

--

EFECTO SOBRE LOS INGRESOS

--

POTENCIAL DE EXPLOTACIóN

--

HUB

Eje Sureste

IMPACTO ECONóMICO

--

CONOCIMIENTOS ESPECíFICOS NECESARIOS

--

POTENCIAL DE MOVILIZACIóN

--

POTENCIAL DE SOSTENIBILIDAD - VALOR

Muy positivo

FACILIDAD DE APLICACIóN

--

FACILIDAD DE IMPLEMENTACIóN - EVALUACIóN

Fácil

PREREQUISITOS CLAVE

--

TIPO DE EVENTO EN EL QUE SE HA PRESENTADO ESTA IFS

Visita de estudio (T2.3)

EFECTO SOBRE EL EMPLEO

--

COSTES DE IMPLEMENTACIóN (EURO - €)

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MáS DETALLES

RETO ABORDADO

1. Mejorar la resistencia y la adaptación de los bosques al cambio climático

DOMINIO

Gestión forestal, silvicultura, servicios ecosistémicos, resiliencia

TIPO DE SOLUCIóN

Sensores, equipos de medición

PALABRAS CLAVE

Fire detection

sensors

automatic messaging.

SOLUCIóN DIGITAL

Sí

INNOVACIóN

Si

PAíS DE ORIGEN

Croacia

ESCALA DE APLICACIóN

Regional/sub-nacional

AñO DE INICIO Y FIN

2019 -

DATOS DE CONTACTO

PROPIETARIO O AUTOR

Gymnasium Velika Gorica

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

REPORTADOR

Competence Centre Ltd. for research and development

PhD. Ivan Ambroš

ambros@cekom.hr

REFERENCES AND RESOURCES

SITIO WEB PRINCIPAL

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SITIO WEB DEL PROYECTO

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REFERENCIA DEL PROYECTO

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RECURSOS

Application view

LOGO DE LA BUENA PRáCTICA



LOGOTIPO DE LA ORGANIZACIóN PRINCIPAL

PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood 4.0

FECHA DE MENSAJE

13 Sep 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

Centro de Servicios y Promoción Forestal y de su Industria de Castilla y León