



All



ADVANCED SEARCH

Conferences > 2023 3rd International Confer... ?

IoT based Weather, Soil, Earthquake, Air pollution Monitoring System

Publisher: IEEE

Cite This



Kondireddy Muni Sankar ; B. Booba ; C Rangaswamy ; P. V. Pramila ; Sangita Rani Kar ; Ashok Kumar ; M. Sudhakar All Authors

1 Cites in Paper

106 Full Text Views



Alerts

Manage Content Alerts Add to Citation Alerts

Abstract



Download PDF

Document Sections

- I. Introduction
- II. Suggested System
- III. Software Used
- IV. Results & Effects
- V. Conclusion

Abstract:

This article provides IoT information on a great option for tracking local temperature variables and enabling the information accessible from any part of the planet. The ... **View more**

Metadata

Abstract:

This article provides IoT information on a great option for tracking local temperature variables and enabling the information accessible from any part of the planet. The dynamic changes in the weather are to blame for the severe flooding. Using the NODEMCU ESP8266, it accomplishes the creation of a flood observing arrangement for loading and recovering data from the arrangement. Ultrasonic sensors and LEDs are used to warn the authorities to the presence of heavy water. A crucial component of plant life, soil moisture will directly impact crop growth and output. A key component of the vegetation that directly affects the development and production of the harvest is soil moisture. It uses a microcontroller and sensor to carry out the advancement of soil dampness checking. The initial tremor of a large earthquake is picked up by an earthquake warning system employing a sensor. Because there are more businesses and vehicles on the road today, the air quality is poor, which has an impact on people. The importance of using IOT to evaluate the value of the air and the amount of pollutants in the environment cannot be overstated because the field has experienced a major development. It creates a system that uses the MQ135 sensor, which will be visible on the Cayenne platform, to measure the amount of harmful airborne pollutants such as methane, alcohol, benzene, and CO2. Data is automatically stored in private channels by thing talk. The data obtained from the embedded scheme could be reachable over an internet from wherever in the sphere.

Authors

Figures

References

Citations

Keywords

Metrics



More Like This
ng [MathJax]extensions/MathMenu.js

Published in: 2023 3rd International Conference on Innovative Practices in Technology and Management (ICIPTM)

Date of Conference: 22-24 February 2023

DOI: 10.1109/ICIPTM57143.2023.10118160

Date Added to IEEE Xplore: 10 May 2023

Publisher: IEEE

► ISBN Information:

Conference Location: Uttar Pradesh, India

☰ Contents

I. Introduction

The weather system was a technological advancement that uses multiple sensors to collect data. The NODEMCU ESP8266, the device's brain, communicates with temperature & humidity sensors, barometrik pressure sensors (BMP181), & rain sensors (FC38) for monitoring the various climate components, like temperature, rain, and humidity separately [1]–[5].

Sign in to Continue Reading

Authors	▼
Figures	▼
References	▼
Citations	▼
Keywords	▼
Metrics	▼

More Like This

Early Detection and Prediction of Flood and Earthquake using Internet of Things: A Computer based Disaster Control System
2023 International Conference on Communication, Security and Artificial Intelligence (ICCSAI)
Published: 2023

Soil Moisture Monitoring Through UAS-Assisted Internet of Things LoRaWAN Wireless Underground Sensors
IEEE Access
Published: 2022

Show More

Loading [MathJax]/extensions/MathMenu.js



IEEE Personal Account

CHANGE USERNAME/PASSWORD

Purchase Details

PAYMENT OPTIONS
VIEW PURCHASED DOCUMENTS

Profile Information

COMMUNICATIONS PREFERENCES
PROFESSION AND EDUCATION
TECHNICAL INTERESTS

Need Help?

US & CANADA: +1 800 678 4333
WORLDWIDE: +1 732 981 0060
CONTACT & SUPPORT

Follow



[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [IEEE Ethics Reporting](#) | [Sitemap](#) | [IEEE Privacy Policy](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2024 IEEE - All rights reserved, including rights for text and data mining and training of artificial intelligence and similar technologies.

IEEE Account

- » Change Username/Password
- » Update Address

Purchase Details

- » Payment Options
- » Order History
- » View Purchased Documents

Profile Information

- » Communications Preferences
- » Profession and Education

Loading [MathJax]extensions/MathMenu.js

» Technical Interests

Need Help?

» **US & Canada:** +1 800 678 4333

» **Worldwide:** +1 732 981 0060

» Contact & Support

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [Sitemap](#) | [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2024 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.