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Response: 10

Additional information

1. **e-Copies of the Patents published/awarded during the last five years**

Bundesrepublik Deutschland

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Die Präsidentin des Deutschen Patent- und Markenamts

Cornelia Rudloff-Schäffer

München, 27.04.2022

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

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(21) Application No.202241007572 A

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(54) Title of the invention : IoT, Artificial Intelligent and YOLOv3 based Infrared Anomaly Detection for Power Equipment

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(51) International classification : G06K0009620000, G06K0009000000, G01R0031080000, G06T0007000000, G01R0031500000

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(57) Abstract :
IoT, Artificial Intelligent and YOLOv3 based Infrared Anomaly Detection for Power Equipment Abstract: The power generation and transmission equipment is the most critical component of the power system. Due to its safety, simplicity, and ease of use, infrared anomaly detection technology is an excellent tool for locating issues with power distribution equipment. For this study, the YOLOv3 network was trained using infrared images captured in the field. As a result, the Jetson Nano was able to detect power equipment and fault points in real time. YOLOv3 is put through its paces. 21 percent of people recall the model's mAP value, and 34.63 percent of people recall the model's mAP value. Utilize the model's mAP to identify the location of the anomaly as well as the points of entry and exit for power. Currently, manual inspection is used to detect infrared faults, but this method has a low detection rate. This article proposes a more accurate method for determining the operational status of high-voltage lead connectors in substations. YOLOv3 is the name of this network. When processing low-resolution element layers, the YOLOv3 backbone network employs dilated convolution. This enables the network to extract image features and spread functions more efficiently, as well as to recognise small targets. On the other hand, dilated convolution makes it easier for the network to recognise large objects. Using multi-scale training, a fault detection model for the infrared image of the high voltage lead connector is built. The best infrared image test data set for the high voltage lead connector is discovered. The new network model is then evaluated to determine whether it performs better as a result of the data. The new YOLOv3 network model has an accuracy rate of 84.26 percent, which is 4.58 percent higher than its predecessor. The majority of the time, the YOLOv3 network model detected 84.26 percent of suspicious events. For high-voltage lead connectors, the YOLOv3 network model has an average detection time of 0.308 seconds, which is sufficient for real-time fault detection in substations.

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उमानाथ सिंह अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
वीर बहादुर सिंह पूर्वांचल वि०वि०, जौनपुर

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REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

MR. ZATIN GUPTA;
DR. P.THARMARAJ;
DR.J.SHAKINA;
DR RAHUL DUBEY;
DR. DURGACHARAN ARUN BHAGWAT;
DR UMESH KUMAR PANDEY;
DR SAURABH PAL;
DR SHIKHA GUPTA

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2022/02141

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the **25th** day of **May 2022**

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Registrar of Patents

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V.B.S. Purvanchal University
Jaunpur

07

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/02/2022

(21) Application No.202241007572 A

(43) Publication Date : 25/02/2022

(54) Title of the invention : IoT, Artificial Intelligent and YOLOv3 based Infrared Anomaly Detection for Power Equipment

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(51) International classification : G06K0009620000, G06K0009000000, G01R0031080000, G06T0007000000, G01R0001500000
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(62) Divisional to Application Number : NA
Filing Date : NA

(57) Abstract
IoT, Artificial Intelligent and YOLOv3 based Infrared Anomaly Detection for Power Equipment Abstract: The power generation and transmission equipment is the most critical component of the power system. Due to its safety, simplicity, and ease of use, infrared anomaly detection technology is an excellent tool for locating issues with power distribution equipment. For this study, the YOLOv3 network was trained using infrared images captured in the field. As a result, the Jetson Nano was able to detect power equipment and fault points in real time. YOLOv3 is put through its paces. 21 percent of people recall the model's mAP value, and 34.63 percent of people recall the model's mAP value. Utilize the model's mAP to identify the location of the anomaly as well as the points of entry and exit for power. Currently, manual inspection is used to detect infrared faults, but this method has a low detection rate. This article proposes a more accurate method for determining the operational status of high-voltage lead connectors in substations. YOLOv3 is the name of this network. When processing low-resolution element layers, the YOLOv3 backbone network employs dilated convolution. This enables the network to extract image features and spread functions more efficiently, as well as to recognise small targets. On the other hand, dilated convolution makes it easier for the network to recognise large objects. Using multi-scale training, a fault detection model for the infrared image of the high voltage lead connector is built. The best infrared image test data set for the high voltage lead connector is discovered. The new network model is then evaluated to determine whether it performs better as a result of the data. The new YOLOv3 network model has an accuracy rate of 84.26 percent, which is 4.58 percent higher than its predecessor. The majority of the time, the YOLOv3 network model detected 84.26 percent of suspicious events. For high-voltage lead connectors, the YOLOv3 network model has an average detection time of 0.308 seconds, which is sufficient for real-time fault detection in substations.

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उमानाथ सिंह जम्मियांत्रिकी एवं प्रौद्योगिकी संस्थान
वीर बहादुर सिंह पूर्वांचल वि०वि०, जौनपुर

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06

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(22) Date of filing of Application :29/10/2021

(21) Application No.202141049777 A
(43) Publication Date : 26/11/2021

(54) Title of the invention : CLOUD AND IOT BASED INTELLIGENT PLANT WALL FOR GREEN INDOOR CLIMATE.

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(57) Abstract :
This technique is ideal if you are growing medicinal plants in an area with little or no direct sunlight. It has a set of requirements, which can then be sent to the cloud, and the pump might and then with activate if necessary based on the situation. The primary goal of this strategy is to develop a plant monitoring system that can sense and operate plants that. Sensors and temperature control systems are increasingly being used in residential structures. Earlier study has demonstrated that a healthy plant wall system can improve indoor air quality and remove organic compounds in the interior environment while also stabilizing the level of carbonic acid gas. The remote monitoring and control of the plant wall is designed for plant walls. To optimize the administration process, increase sustainability, and improve plant well care, Thingspeak technology and public cloud platforms

05

(12) PATENT APPLICATION PUBLICATION

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(22) Date of filing of Application :22/10/2021

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(54) Title of the invention : IMPLEMENTATION OF HUMAN HEALTH MONITORING SYSTEM USING IOT.

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(57) Abstract :
ABSTRACT Wi-Fi based health monitoring framework is used to monitor patients' various conditions remotely and continuously. As a professional or someone else, in the first system framework, you can monitor various patient limits while you're sitting in your room or wherever you're at. An [illegible] microcontroller, ADC, and sensors are used to build this framework. The framework and regulator communicate sequentially via the RS232 standard. A C-language is used to examine the found values and to display them on the display. The results of this program are transferred to a specific location using [illegible]. Finally, anyone with a fully realized URL can benefit from these features on their mobile device or personal computer. A versatile e-medical services framework with numerous physiological signs estimation ability progressively is planned and created. This framework performs neighborhood fundamental sign information investigation utilizing a mobile phone and communicates information over a Wide Area Network. Readers of the patients are persistently be observed, prepared and broke down locally at PDA to deliver valuable clinical data for finals and following purposes. At the point when any obscure or unnatural designs with signals are recognized, PDA plays out some basic information examination first and afterward quickly communicates these signs to an emergency clinic worker for clinicians' constant conclusion. Execution of remote innovation in the conclusion framework empowers patient can be observed anyplace, whenever and would not be hindered by the actual requirements forced by the links. This component could demonstrate accommodating in satisfying the vision of Medical Intensive care unit by IoT. A great deal of period, because of carelessness of clinic staff, or inaccessibility of family members it might happen that medicine is not noticed accurately, and it might go on to cause coronary failure or other perilous circumstances. The second system comprises of various sensors. Controlling and information handling is done through the ESP8266, every one of the sensors are associated with Arduino Uno. Through this framework, we can gauge Temperature, heartbeat, and BP. Through sensors, it is feasible to gauge this load of qualities. These qualities are then utilized for recognizing any circumstance. If there should arise an occurrence of a basic circumstance, an alarm can be given as a text message. It is feasible to screen the individual's wellbeing from any area on the planet through the mosquitto worker cloud. The task utilizes a MQTT convention for checking patients. Condition through the portable Application. The information from sensors is transferred to the cloud worker, intermittently with no interference if the web is accessible. Through this framework one can productively screen patient's condition. The current analysis is conducted on the basis of the hardware based implementation of the human health tracking system using IoT based on [illegible] and Arduino based controllers. The parameters are tested on 10 persons under ideal conditions. The Overall accuracy of the [illegible] system is 97% and of the Arduino system is 96%.

No. of Pages : 16 No. of Claims : 5

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उमानाथ सिंह अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
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04

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(54) Title of the invention : CLOUD AND IOT BASED SMART FOREST FIRE DETECTION AND WARNING SYSTEM.

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(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
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Filing Date : NA

(57) Abstract :
The development of modern industrial civilizations has caused in the establishment of manufacturing plants, office buildings, and housing blocks throughout urban parts. Because of the combustible substances contained in these facilities, there are gas and oil tanks all over these areas. Because of the densely packed buildings, extreme heat and smoke, and the possibility of explosives, putting out a fire in one of these places is nearly impossible. Currently, wildfires are extinguished using human-powered firefighting methods such as deluge cannons and chemical fire suppression equipment. Firefighting robots are a good fit for construction sites and industrial settings where humans are unable to perform their duties effectively. In recent years, researchers have made significant progress in fire-fighting robot research to deal with fire-related disasters in many countries. Forest fires are becoming more intense on a daily basis, and NodeMCU Internet of Things technology can detect and predict this. Interfacing a temperature sensor with a DTH11 humidity sensor is required in this project to detect changes in temperature and humidity caused by the fire. The sensor's output can be stored indefinitely using Thingspeak. The data is stored in the cloud by Thingspeak. To identify a fire, temperature and humidity data are used to perform an analysis based on a threshold value. As soon as it is discovered, an email with sensor values and an estimated time of when the fire will break out is sent out.

No. of Pages : 9 No. of Claims : 5

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03

(12) PATENT APPLICATION PUBLICATION
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(54) Title of the invention : An investigation into the factors that influence the IoT-based smart hospitals design.

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(51) International classification :H04L 29/08
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :
The current digital technological innovations, which are rapidly developing, have an impact on and change the integrated management procedures in all industries, including manufacturing. Health sector has been compelled to adopt a digital transformation strategy in order to maximize the effectiveness of the methodologies that are used to manage health sector management systems (HMS). The IoT is critical in this transformation because it allows multiple devices to connect and collaborate on projects. The Internet of Things relies on infrastructure such as various sensors, connection approaches, internet protocols, databanks, cloud computing technology, and analytics to allow systems to communicate with one another. As a result, the necessary technical infrastructure and an appropriate environment must be established in order to facilitate the development of smart hospitals. Incorporating Internet of Things technology into smart hospital environments introduces new optimization factors and challenges, as well as new technologies and opportunities. Every layer of technical infrastructure, including the constraints and methods that go with it, is divided into its own infrastructure. Smart hospitals will be equipped with real-time big data analytics capabilities, as well as smart computing and real-time data analysis systems. The research has revealed what flaws can exist in the smart hospital design model at each level, as well as what considerations must be made to avoid these flaws. The Smart Hospital System Design Guide will soon be available for supervisors, developers, and investigators who are concerned in improving the design of smart hospital system to use as a guide.

No of Pages : 12 No of Claims : 5

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(2)

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/12/2020

(21) Application No.202021056208 A
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(54) Title of the invention : 3D PRINTING BASED DESIGN AND DEVELOPMENT OF TOUCHLESS SENSORENABLED HAND AND ROOM SANITIZER MACHINE

(51) International classification :H01L21/00
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(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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(57) Abstract :
By the name of Covid-19, which also hit India in February 2020, many people got infected. They died out of those mostly suffering from a disease that came in early 2020. WHO noticed that this disease is mostly transmitted by hand and mouth from one person to another person. They declared, with the aid of sanitizer and soap, to wear a mask and use sanitizer or wash hands frequently and properly. Many business organizations developed a Touchless Hand Sanitizer Dispenser that was expensive for individuals. When this disease infects our city and our neighborhood, our elders decided to purchase expensive machines for their use. The cost of those machines is Rs. 3000 to Rs. 6000 on the market. We are talking about why we cannot make this machine at a low and affordable price to hit every person according to their wallet. We went forward and manufactured this machine at a very low-cost price of Rs. 300, which is our product price. The unique and novel machine is to design and develop using 3D printing technology. The machine works on touchless sensor-based technology and very handy to move and operate. Its primary use to sanitize room and hand. The machine can also use to sanitize a 5x5 square feet area around a chair or sitting place.

No. of Pages : 10 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/12/2017

(21) Application No.201711044066 A

(43) Publication Date : 25/05/2018

(54) Title of the invention : PLANT EXTRACT FOR ANTIDIABETIC, HEPATOPROTECTIVE AND ANTIOXIDANT ACTIVITY

(51) International classification	:A61K36/185
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
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(57) Abstract :
The present invention relates to novel use of the extracts of Ocimum canum plant species. The present invention particularly relates to novel use of the extracts of Ocuman canum leaves, which show antidiabetic, hepatoprotective and antioxidant activity.. Hie present invention also relates to a process for the preparation of novel herbal extract of Ocimum canum species with antidiabetic, hepatoprotective and antioxidant activity and also to the use thereof for the treatment of diabetic, hepatoprotective and antioxidant activity.

No. of Pages : 21 No. of Claims : 5

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