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## Patent Search

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### Inventor

Name	Address	Country
V.R.Elangovan	Assistant Professor, Department of computer Applications, Faculty of science and Humanities, SRMIST institute of science and technology kattankulathur chennai 603203	India
Dr Balaji V	Associate Professor/EEE, MAI-NEFHI College of Engineering and Technology, ASMAR, Eritera	Eritrea
Chethana R.M.	Assistant Professor,CSE,CMR University Bagalur-562149	India
Dr. V.Arun	Assistant Professor, Department of Computing Technologies, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu District - 603203	India
Ch Srividya	Assistant Professor, Department of Computer Science and Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad,pin 500043	India
Ms Tahera Abid	Assistant Professor, IT Dept. , Nawab Shah Alam Khan College of Engineering and Technology, Hyderabad, Telangana	India
B.Suresh kumar	Associate professor,Chaitanya Bharathi Institute of Technology is a private engineering college located in Gandipet, near Financial District, Hyderabad, Telangana, India.	India
Dr Amit chauhan	Department of life sciences, School of sciences, CHRIST (Deemed to be University), Bengaluru, Karnataka, India 560029	India
Sonam Juneja	Assistant Professor /CSE,Chandigarh University,Mohali, 140413	India
Dr. Pasupuleti Subrahmanya Ranjit	Professor, Dept. of Mechanical Engineering, Aditya Engineering College (A), Surampalem-533437	India
Dr. Reema Goyal	Associate Professor, Computer and Engineering, Chandigarh University, Mohali,140413	India
Navneet Chaudhry	Assistant Professor, CSE, Mohali, 140413	India

### Applicant

Name	Address	Country
V.R.Elangovan	Assistant Professor, Department of computer Applications, Faculty of science and Humanities, SRMIST institute of science and technology kattankulathur chennai 603203	India
Dr Balaji V	Associate Professor/EEE, MAI-NEFHI College of Engineering and Technology, ASmara, Eritera	Eritrea
Chethana R.M.	Assistant Professor,CSE,CMR University Bagalur-562149	India
Dr. V.Arun	Assistant Professor, Department of Computing Technologies, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu District - 603203	India
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Dr. Reema Goyal	Associate Professor, Computer and Engineering, Chandigarh University, Mohali,140413	India
Navneet Chaudhry	Assistant Professor, CSE, Mohali, 140413	India

#### Abstract:

Integration of IOT and artificial intelligence for smart automation in industry 4.0 using sensors is the proposed invention. The proposed invention focuses on studying integrating IOT along with sensors for improving the accuracy in Industry 4.0 aspects. The invention focuses on analyzing the parameters of smart automation in industry using algorithms of Artificial Intelligence.

#### Complete Specification

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] Automation describes a wide range of technologies that reduce human intervention in processes, namely by predetermining decision criteria, subprocess relationships, and related actions, as well as embodying those predeterminations in machines. The application of technology, programs, robotics or processes to achieve outcomes with minimal human input.

[0003] A number of different types of industry 4.0 analysis systems that are known in the prior art. For example, the following patents are provided for their support teachings and are all incorporated by reference.

[0004] US20180262571A1:- Currently there is no viable end to end integrated technology solution platform available to increase overall crop yield nor well established communication platform nor infrastructure for agriculture management, logistics, storage, distribution and delivery. This patent is offering a global solution to this problem where it will provide a consolidated and integrated IoT (internet of things) system platform with AI (artificial intelligence) where data collection, monitoring, control and communication platform are all managed using a single platform. The utility model relates to the technical field of wireless sensing, specifically an agricultural IoT (Internet of Things) monitoring device based on optical fiber sensing, wherein the device can monitor the temperature, humidity, vibration and other parameters of an agricultural cultivation base. The device is characterized in that the device is provided with a microcontroller, a parameter recorder and the parameter recorder is connected with various sensors. For example: soil temperature sensor and humidity sensors, a soil moisture sensor, a soil conductivity sensor, an air temperature and humidity transducer, salinity sensor, etc. The upper computer is connected with the parameter recorder and the air temperature and humidity transducer through a communication circuit.

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