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Patent Search

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Abstract:

THE IMPLEMENTATION OF IOT IN GREENHOUSE FARMING: PROTOCOLS AND APPLICATIONS OF ENABLING TECHNOLOGIES ABSTRACT: In the big data environment, w personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Servi design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personal design. customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregatic knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technical services of university libraries including internal and external personnel, information resources, technical services of university libraries including internal and external personnel, information resources, technical services of university libraries including internal and external personnel, information resources, technical services of university libraries including internal and external personnel, information resources, technical services of university libraries including internal and external personnel, information resources, technical services of university libraries including internal and external personnel, information resources, technical services of university libraries including internal and external personnel, information resources, technical services in the services of university libraries including internal and external personnel information resources. services, processes, platforms, and environment has been constructed Arti?cial intelligence (AI) is one of the emerging trends and applications of computing in libraria programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of arti?cial intelligence in libraries is to de computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of arti intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersi among others. Although the incorporation of arti?cial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do than taking over the jobs of librarians. It will enhance their services delivery. Arti?cial intelligence will greatly improve library operations and services and will upgrade heighten the relevance of libraries in an ever-changing digital society In modern times, wireless communication is increasingly replacing the cumbersome cable meth agriculture, as it is easier to install and administer. This study presents a novel design for an Internet of Things (IoT) application in a greenhouse. The design incorpora technologies to propose a new model for the practical execution of the IoT concept. The primary concept is to enhance the productivity of vegetables, fruits, and crop employing advanced technologies. The proposed Internet of Things (IoT) based smart greenhouse farming system utilises sensor elements to monitor crucial aspects temperature, humidity, soil moisture, and light. It then warns users through a mobile application. The sensor values displayed on the GSM module can be utilised for of agricultural data. Authenticated mobile application development enables remote monitoring of parameters from any location.

Complete Specification

Description: DESCRIPTIONS:

The concept of Internet of Things was initially introduced by Kevin Ashton in 1999 as a means to elucidate the integration of radio frequency identification (RFID) tec into the Internet. The International Telecommunication Union defines the Internet of Things as a worldwide infrastructure that enables advanced services by conn physical and virtual objects using existing and evolving interoperable information and communication technologies. The current Internet has undergone a significat transformation, enabling it to connect and integrate various elements in the environment. This includes not only gathering information but also facilitating physical commands, and control. Additionally, the Internet now offers services such as information transfer, analytics, applications, and communication. The integration of system with cutting-edge technologies in data processing, such as Big Data, Cloud Computing, and Machine Learning, has the potential to overcome challenges and progress in many fields including manufacturing, healthcare, logistics, and agriculture. Governments worldwide have significantly endorsed the development and implementation of IoT in agriculture in recent years. An example of an agricultural model that incorporates IoT is a hydroponic system, which requires the connect numerous equipment. India, being a developing economy, has implemented the Make in India initiative to enhance its industrial sector by substituting manual lab automated machinery across all sectors. However, it is important to note that a significant portion of the Indian population still relies on agriculture. As a result of insufficient rainfall and unprofitable crops, many individuals were unable to utilise automated machinery. They relied on numerous conventional methods of farm Recently, numerous research organisations have established greenhouses to cultivate crops under regulated climatic conditions. This method allows for increased agricultural output while minimising resource usage, such as water and fertilisers. In recent

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