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## Patent Search

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Abstract:

INTERNET OF THINGS (IOT), ANN BASED SMART METEOROLOGICAL CONDITIONS MONITORING AND PREDICTION SYSTEM Abstract: In the big data environment, we d 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, a 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, perso 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, techn services, processes, platforms, and environment has been constructed Arti?cial intelligence (AI) is one of the emerging trends and applications of computing in librari 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 It is also critical for forecasting natural disasters like hurricanes and typhoons. Precision weather aid agriculture, transportation, and other industries greatly. Accurate weather forecasting is critical for limiting natural catastrophe damage. The Internet of Things (Io network architecture that combines hardware and wireless communication networks to process and analyze data in real time. As a result, the proposed topology buil monitoring system based on the Internet of Things and forecasting using an artificial neural network. The Internet of Things is set up to collect and distribute data fro via a Wi-Fi network. This suggested topology's major objective is to monitor and record meteorological conditions such as temperature, humidity, barometric pressur precipitation. The ANN algorithm has been tuned for weather forecasting.According on the study's findings, the proposed arrangement gives more exact weather for conventional methodologies.

## Complete Specification

Description:Descriptions:
Modern technology is capable of meeting the needs of modern humanity. The Internet of Things (IoT) has the potential to change how individuals perceive and live modern society. The bulk of IoT applications in agriculture and the environment necessitate constant monitoring. These issues cover a wide range of topics. Future may benefit from the Internet of Things. Beyond data collecting and cloud storage, the Internet of Things has potential applications in the environmental sector. Environmental factors can be forecasted using predictive models using data acquired by Internet-of-Things-connected sensors. Making decision-making faster and accurate results in a safer and healthier environment for all forms of life, including suppliers, technicians, farmers, distributors, customers, entrepreneurs, and gove officials. It is difficult, if not impossible, to forecast the long-term relationships between several variables using standard modeling techniques. Complex modeling techniques can shed light on this phenomenon. Many deep learning models based on RNNs or CNNs have been developed. Multivariate time series can improve fo precision while reducing reliance on periodic data. Climate change is one of humanity's most pressing issues. Most climate experts are concerned that human-caus global warming will harm our planet. Human activity has resulted in a reduction in biodiversity, soil erosion, harsh weather, increasing sea levels, and global warmin Individuals' health, the economy, food quality, and energy use are all affected. The intricacy, duration, and fluctuation of weather need a huge amount of data. Desp being geographically close, local climates can differ in terms of temperature, humidity, and other climatic features. By anticipating greenhouse temperatures, this st hopes to boost greenhouse producers' production. Temperature, humidity, soil moisture, wind speed and direction will all play a role in this inquiry. Farmers must anticipate and respond to weather variations in order to ensure the sustainability of natural resources. As a result, a multivariate convolutional Latent Semantic Mo (LSM) network was integrated in an IoT-based greenhouse temperature forecast system. The ambient temperature prediction technique is used to forecast the loca

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