Patent Search

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Abstract:

INTERNET OF THINGS (IOT) AND AL PROTOCOLS FOR CONTEXT AWARE ANONYMITY AUTHENTICATION WITH AN EMPHASIS ON E-HEALTH APPLICATIONS Abstract: In t environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functic the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the u library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs b data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, inform resources, technology, services, processes, platforms, and environment has been constructed Arti?cial intelligence (Al) is one of the emerging trends and applications computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of arti? intelligence in libraries is to develop 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?cial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf- robots, virtual reality for immersive learning among others. Although the incorporation of arti?cial intelligence in libraries can be perceived to alienate librarians from it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Arti?cial intelligence will greatly improve libr operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society The Internet is now available in almost every coun planet, and it has transformed people's lives in unprecedented ways. Because it may be utilized in so many various ways in this age of wireless connectivity, the Inter (IoT) is becoming more well-known and is being investigated by specialists from many different sectors. The Internet of Things (IoT) is a sort of technology that improv performance of ordinary products, computers, and communication. The purpose of this article is to provide scholars in this subject with a high-level overview of the r prevalent features, designs, and protocols found in Internet of Things (IoT) devices so that they can learn more about this rapidly evolving technology. We discuss the (Raspberry Pi, Arduino, and ESP8266) and software (operating systems and built-in tools) of IoT devices in depth in this article. Architectures based on service-oriente architecture (SOA), three-layer architecture, and middleware are all current and frequently used architectures. Several of the most popular IoT protocols are shown, ir CoAP, MQTT, XMPP, AMQP, DDS, LoWPAN, BLE, and Zigbee. These protocols are frequently utilized when developing smart apps for the Internet of Things. Yet, the finc study provide a comprehensive look at how IoT technology might be leveraged to develop healthcare apps that can help cure a wide range of health concerns. This st concludes with a summary of the most current findings, a discussion of outstanding questions and research needs, and recommendations for future studies to addre gaps.

Complete Specification

Description:DESCRIPTIONS:
Internet of Things (IoT) applications can now be created thanks to recent advancements in wireless communications, pervasive sensing, and ubiquitous computing. "everything" can be linked "anywhere" and "at any moment." Yet, the Internet of Things has the most promise in eHealth, which is the collecting and transmission of health data to providers for treatment and analysis [1]. The Internet of Things is a cutting-edge piece of technology that provides exceptional medical solutions in te both improving care quality and lowering costs. Wireless body area networks (WBAN) are one of many network types that could be useful for Internet of Things (IoT medical devices. It consists of a network of mobile devices such as smartphones, tablets, and personal digital assistants that serve as controller nodes (CNs) and rec data from wearable medical devices that monitor physiological signals (PDA). The CN transmits the data it collects to a remote medical server via the Internet or cell networks. As a result, the primary purpose of this research is to propose a context-aware anonymous authentication system for a two-hop WBAN topology. The rela in this topology are chosen on the fly based on changes in the environment. As a result, everyone can communicate more effectively. We concentrate on anonymou authentication that takes into account the current scenario. This is a difficulty that arises both in routine and emergency situations. To begin, we create an anonymc authentication mechanism that can be utilized in common instances between sensor nodes and controller nodes. Following that, we will look at how the body sens interact in potentially hazardous circumstances. In reality, authenticated device-to-device communication may be superior to communication between sensors and controllers for addressing the issue of bringing patients in urgent medical conditions quick medicines. For example, if a sensor detects a sudden drop in the patient glucose level, the insulin pump must be notified immediately so that the basal insulin infusion can be halted. If the control unit is late or malfunctions, the patient's health may be jeopardized. The Internet has a significant impact on people's daily life since it allows them to communicate with one another online, both professior

View Application Status