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## Patent Search

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#### Abstract:

A GREEN 6G NETWORK FOR PERVASIVE COMMUNICATION: AN EXPERIMENTAL ANALYSIS Abstract: In the big data environment, we develop personalized information libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface m according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the full design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services base intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, ar environment has been constructed Arti?cial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming comput things, which if done by humans, would be said to require intelligence. The ultimate promise of arti?cial intelligence in libraries is to develop computer systems or ma 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 be pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning 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 more rather than taking over librarians. It will enhance their services delivery. Arti?cial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance an ever-changing digital society The forthcoming 6G communication revolution, projected to commence in approximately 2040 and span over several decades, is anti bring about a transformative impact on the healthcare sector. The phenomenon of becoming commonplace is anticipated to extend beyond the medical domain and various other disciplines. The advent of 6G connectivity and artificial intelligence (AI) will need a comprehensive reassessment of healthcare delivery. The primary obj technology is to address the prevailing challenges that hinder effective clinical care provision. Furthermore, this paper aims to emphasise the potential of 6G technology transforming the healthcare industry. This elucidates the prospective outlook of healthcare upon the widespread integration of 6G networking technology. The prese to examine the impact of integrating artificial intelligence (AI) and Internet of Things (IoT) technologies within the healthcare sector, specifically focusing on the clinica applications that are expected to yield the greatest benefits. The assessment of the carbon emission reduction potential of the Green 6G network can be conducted t comparative analysis of its energy consumption in relation to conventional networks. The decrease in energy consumption results in a corresponding decrease in car emissions, so making a positive contribution to the goal of environmental sustainability. A comparative analysis of statistical data pertaining to carbon emissions resu energy usage can be conducted between Green 6G and conventional networks. The statistical data highlights a significant decrease of 40% in latency for data-intensiv applications, namely in the context of virtual reality streaming. Through the strategic allocation of computer resources at the network edge, the system effectively rec distance that data must travel. This optimisation results in enhanced user experiences and the efficient utilisation of available resources.

### **Complete Specification**

## Description: DESCRIPTIONS:

The exponential expansion of communication technology has resulted in a rising need for enhanced data speeds and increased network efficiency. The progressior wireless networks from the first generation (1G) to the fifth generation (5G) has resulted in notable breakthroughs. Nevertheless, there has been an increase in apprehensions regarding the environmental ramifications and energy usage associated with these networks. The concept of "Green" networks has gained significar the global community progresses towards a more sustainable future. The objective of this study is to investigate and conduct experimental analysis on the possibili Green 6G network in attaining widespread communication while mitigating its environmental impact. The term "6th Generation" (6G) is being critically examined by researchers and experts, who consider it to be an implausible concept. One of the primary aims of 6G is to facilitate the provision of Al and ML advantages to remoi individuals and enterprises. The advent of 6G technology is expected to facilitate a multitude of noteworthy technical advancements. These advancements encomp substantially enhanced data transfer rates, provision of infrastructure for novel and captivating applications, optimised utilisation of radio frequency bands, and a heightened focus on the integration of artificial intelligence and machine learning. Deep learning (DL) is anticipated to emerge as a prominent breakthrough in the f machine learning for the development of the 6G standard. This is primarily due to its ability to effectively extract a substantial volume of information from situation closely resemble human experiences. Deep learning (DL) has the capability to make decisions on various aspects, such as selecting a certain 6G pathway for connec determining the resource controller with a higher abundance of accessible resources. In recent years, there have been notable advancements in technology that ha greatly facilitated the widespread adoption and use of various medical care technologies across

View Application Status



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