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Patent Search

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Inventor

Name	Address	Country
Dr. B. Ramana Kumar	Professor, Department of ECE, Swarnandhra College of Engineering and Technology, Sitaramapuram, Narsapur, West Godavari, Andhra Pradesh, India, Pincode: 534280	India
Dr. Sajja Suneel	Assistant Professor, Department of CSE (Data Science), Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India
Dr. Manoj Kumar Merugumalla	Professor, Department of EEE, Bharat Institute of Engineering & Technology, Mangalpally Village, Ibrahimpatnam Mandal, Hyderabad, Telangana, India, Pincode: 501510	India
Dr. M. Kalyana Raju	Associate Professor, Department of Physics, Humanities & Basic Science, Welfare Institute of Science, Technology & Management, Pinagadi (V), Pendurthy (M), Visakhapatnam (D), Andhra Pradesh, India, Pincode: 531173	India
Dr. Y. Venkata Krishna Reddy	Associate Professor, Department of EEE, Sri Venkateswara College of Engineering (Autonomous), Tirupati, Andhra Pradesh, India, Pincode: 517507	India
Dr. Shaik Rafi Kiran	Professor, Department of EEE, Sri Venkateswara College of Engineering (Autonomous), Tirupati, Andhra Pradesh, India, Pincode: 517507	India

Applicant

Name	Address	Country
Dr. B. Ramana Kumar	Professor, Department of ECE, Swarnandhra College of Engineering and Technology, Sitaramapuram, Narsapur, West Godavari, Andhra Pradesh, India, Pincode: 534280	India
Dr. Sajja Suneel	Assistant Professor, Department of CSE (Data Science), Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India
Dr. Manoj Kumar Merugumalla	Professor, Department of EEE, Bharat Institute of Engineering & Technology, Mangalpally Village, Ibrahimpatnam Mandal, Hyderabad, Telangana, India, Pincode: 501510	India
Dr. M. Kalyana Raju	Associate Professor, Department of Physics, Humanities & Basic Science, Welfare Institute of Science, Technology & Management, Pinagadi (V), Pendurthy (M), Visakhapatnam (D), Andhra Pradesh, India, Pincode: 531173	India
Dr. Y. Venkata Krishna Reddy	Associate Professor, Department of EEE, Sri Venkateswara College of Engineering (Autonomous), Tirupati, Andhra Pradesh, India, Pincode: 517507	India
Dr. Shaik Rafi Kiran	Professor, Department of EEE, Sri Venkateswara College of Engineering (Autonomous), Tirupati, Andhra Pradesh, India, Pincode: 517507	India

Abstract:

The proposed invention is a novel telecommunications system that introduces an advanced 6G infrastructure, integrated with augmented reality (AR) technology, to set a new benchmark in global connectivity and digital interaction. This system is designed to deliver ultra-fast data speeds, near-zero latency, and comprehensive global coverage, significantly enhancing the usability and effectiveness of AR applications. The 6G network is uniquely engineered to support terabyte-level data transmission, facilitating digital overlays onto the physical world and revolutionizing various sectors, including education, healthcare, and entertainment. Emphasizing sustainability, the system incorporates energy-efficient designs and advanced cybersecurity measures, addressing the environmental and security challenges of modern digital networks. This invention not only represents a significant advancement in wireless communication technology but also serves as a catalyst for innovation, economic growth, and global development in the digital era.

Complete Specification

Description: This invention pertains to the field of advanced telecommunications and interactive technologies. Specifically, it relates to the development and implementation of a cutting-edge 6G infrastructure, which enables ultra-high-speed global connectivity. This technology encompasses a range of innovative devices and network systems designed to facilitate seamless integration of augmented reality (AR) applications, significantly enhancing user experience and expanding the potential for real-time, immersive digital interactions in various sectors including education, healthcare, and entertainment. The invention focuses on optimizing data transmission speeds, reducing latency, and providing robust, reliable connectivity for a new era of digital communication and interactive experiences.

Background of the invention:

The proposed invention, an advanced 6G infrastructure and devices for high-speed global connectivity and augmented reality integration, is grounded in the evolution of wireless communication technologies that have dramatically transformed how we interact, communicate, and access information. The journey from 1G to the current technology has been marked by significant milestones in enhancing speed, reliability, and functionality, leading to a world increasingly reliant on digital connectivity. 1G, introduced in the 1980s, was a revolutionary step that brought us the first generation of cellular networks, enabling voice calls via analog transmission. However, these networks were limited in coverage, had low voice quality, and offered no data services. The advent of 2G in the 1990s marked the transition to digital transmission, introducing text messaging (SMS) and limited data services, laying the groundwork for mobile communication as we know it today.

The early 2000s saw the emergence of 3G, which brought substantial improvements in data transmission speeds. This enabled more advanced services such as mobile internet access, video calls, and mobile TV. It was 3G that truly kickstarted the mobile internet revolution, leading to the development of smartphones and apps that have become central to modern life.

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