

Wearable Electronics: Revolutionizing Service & Healthcare Operations

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Abstract

This poster explores the transformative impact of wearable electronic devices on the efficiency, quality, and personalized delivery of services within both general service industries and specialized healthcare operations. We investigate the diverse applications, ranging from real-time biometric monitoring for patient care to enhanced operational efficiency in logistics and field services. The challenges of data privacy, integration with existing systems, and user acceptance are also considered. Through a review of current literature and emerging technologies, this presentation highlights how wearables are redefining operational paradigms, offering unparalleled opportunities for proactive intervention, improved decision-making, and superior customer/patient experiences. Wearable electronics are smart devices integrated into clothing or accessories, capable of monitoring, analyzing, and transmitting data. These technologies are transforming industries such as healthcare and customer service through continuous monitoring, improved efficiency, and enhanced user experience. This research explores how wearable technology is reshaping healthcare delivery and service operations. In service industries, wearable technology improves efficiency, safety, and customer satisfaction. Smart headsets and AR glasses assist in field operations. Wearable communication tools enhance coordination among staff. Real-time biometric feedback supports worker safety. Data-driven insights optimize performance and workflow.

Keywords

Wearable electronic devices, transformative impact, efficiency, quality