AI-Driven Innovations in Mobility Assistance Devices for People with Physical Disabilities

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Abstract: *The abstract explores the transformative impact of artificial intelligence (AI) on mobility assistance devices designed for individuals with physical disabilities. In recent years, advancements in AI technology have revolutionized the field of assistive devices, enhancing accessibility and independence for people facing mobility challenges. These innovations leverage machine learning algorithms and sensor technologies to create smart, adaptive solutions that cater to the unique needs of users. AI-driven mobility assistance devices can intelligently analyze user behavior, predict movements, and provide real-time adjustments to improve safety and efficiency. Additionally, these devices often incorporate features such as voice commands, gesture recognition, and intuitive interfaces, fostering a seamless and user-friendly experience. The abstract sheds light on the potential of AI to empower individuals with physical disabilities, promoting inclusivity and redefining the landscape of assistive technologies.*

Keywords: AI-driven innovations, Physical disabilities

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