

Wireless Mobile Charging: A Revolution

Vaibhav Solat¹, Sanket Todmal², Dhanraj Shikare³, Prof. Gaikwad P. V⁴

Student, Department of Computer Engineering^{1 2 3}

Professor, Department of Computer Engineering⁴

Adsul Technical Campus, Chas, Ahilyanagar, Maharashtra, India

Abstract: *Wireless charging is an advancement that allows power to be sent through the air to devices, with the main goal of recharging energy. Recent developments in wireless charging methods and improvements in related technologies have provided a promising solution to the energy limitations of many battery-powered devices. However, the circuits used in wireless charging systems also bring up challenges related to performance, design, and power delivery. In this article, a comprehensive overview of wireless charging techniques is provided, along with improvements in specific areas and some system applications. Overall, the system applications of these methods are connected to medical implants and flexible chargers for various electrical and electronic devices. Additionally, the open challenges in implementing wireless charging technologies have been examined. In this article, a general overview of wireless charging advancements has been introduced.*

Keywords: Wireless charging, Wireless Power Transfer, Resonance coupling, Acoustic Power transfer, Ultrasonic Resonance

