

Smart Wireless Charging Road System for Electric Vehicles

**Prof. Shahida Begum K¹, Mr. Anant Shastri², Mr. Bhuvan E S³,
Mr. Devaraj M⁴, Mr. P Harshavardhan⁵**

¹Professor, Department of CS&E, Proudhavevaraya Institute of Technology, Hosapete, India

^{2,3,4,5}Students, Department of CS&E, Proudhavevaraya Institute of Technology, Hosapete, India

Abstract: *In this work is proposed the design of a system to create and handle Electric Vehicles (EV) charging procedures, based on intelligent process. The Electric Vehicles charging should be performed in effective way. One of the significant challenges with widespread electric vehicle adoption is related to vehicle charging. Many potential EV drivers have range anxiety or don't want to spend much time charging an EV battery on long trips. Although dynamic wireless charging may seem like something out of a science fiction movie, it could be a viable way to overcome vehicle charging issues. These wireless power transfer systems work while the vehicle is in motion, providing numerous benefits.*

Keywords: Electric Vehicles, Intelligent Charging System, Wireless Power Transfer, Dynamic Wireless Charging, Continuous Charging, Range Anxiety, Vehicle Charging Infrastructure, Smart Transportation.

