

Aquitaine-Karnataka collaboration

Scientific Project for Pre-PhD student exchange

Scientific Proposal

Project Title	Shaped Magnetic Field In Resonance Technology (SMFIR technology) .
Scientific domain	WIRELESS POWER TRANSMISSION
Summary	Transportation with electrified vehicles can reduce global dependence on fossil fuels and reduce the emission of green house gases. Recent developments have been focused on the development of electric vehicles, hybrid electric vehicles and fuel cell vehicles. However, the commercial deployment of electric vehicles has lagged behind due to technological issues in associated with the battery including: price, weight, volume, driving distance, and limited investment in charging infrastructure. Shaped magnetic field in resonance (SMFIR) technology enables electric vehicles to overcome these limitations by transferring electricity wirelessly from the road surface while vehicle is in motion. This work describes the innovative SMFIR technology used in the KAIST online electric vehicle (OLEV) project as well as its impact on the future of urban transportation.
Student profile wished	Electrical power system engineer
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Institute/laboratory/industry	Don Bosco institute of technology, Bengaluru
Director name Institute/laboratory/industry	Dr. T SREENIVASAN, PRINCIPAL
Director Institute/laboratory/industry &phone	Don Bosco institute of technology, Bengaluru-74 9663658899
Timing &duration for project	6 month
Representative references	Dr. S K NARAYAN , professor and HOD (Department of EEE), DBIT

