



2024 Third International Conference on Sustainable Mobility Applications, Renewables and Technology (SMART)

November 22-24, 2024

Call for Contributions to the Special Session on Future of Electric Mobility: Solutions to Increase its Penetration

By Prof. Michela Longo and Prof. Alberto Dolara

Thematic: The growth of eMobility opens up new opportunities for different stakeholders in several industrial sectors. Cooperation between ecosystems of innovation, in particular the development of the electric infrastructure for Electric Vehicles (EV), plays a crucial role for the industrial growth. In recent years, there has been a growing awareness that without adequate charging infrastructure, electric vehicle production cannot reach maximum deployment. A modern and innovative charging infrastructure will enable new technologies, such as:

- Vehicle-to-Grid (V2G). During the EVs idle periods, their batteries can be operated as a storage systems, thus they can charge or discharge. In the latter operating mode, the EVs batteries provide electrical energy to the grid when needed to support the grid frequency and/or when the electricity price is high.
- Fleet Electrification and Mobility as a Service (MaaS). More than just installing charging infrastructure, some industry players are envisioning the opportunity to convert the company vehicle fleet to an electric fleet. Although still in its nascent stages, this idea will mature as operators with the right combination of financial resources and technical expertise enter the market.
- Smart road. Due to the movement of vehicles, they will have the ability to recharge themselves thus maintaining their habits of today.

This special session aims to promote new technologies that can give a contribution in order to increase the penetration of electric mobility. All the most current topics, as well as all up-to-date topics related to the increase of EV penetration are given full consideration.

Submission: Prospective authors are invited to submit their extended abstracts of two to three A4 pages, without any specific template, directly to the special session organizers by email to: michela.longo@polimi.it alberto.dolara@polimi.it

Deadlines:	May 15, 2024	Abstract submission
	June 15, 2024	Provisional Acceptance
	July 30, 2024	Full paper submission
	August 30, 2024	Final acceptance