



CALL FOR PAPERS - SPECIAL SESSION

“Design and control of powertrain components for electric vehicles”

for CODIT'22

May 17-20, 2022 ▪ Istanbul, Turkey

Session Co-Chairs:

Prof. Bachir Bendjedja, UATL, Algeria (email : b.bendjedja@lagh-univ.dz)

Dr. Nassim Rizoug, ESTACA, Laval, France (email : Nassim.RIZOUG@estaca.fr)

Dr. Laid Degaa, ESTACA, Laval, France - ([email : Laid.Degaa@estaca.fr](mailto:Laid.Degaa@estaca.fr))

Session description

This special session deals with the recent technologies for Electric Vehicles (EV) in terms of design, control and optimisation of the powertrain components. In particular, the attention is devoted to propose optimal solutions of Energy Storage Systems (ESS) and motor-drives for EV applications. Firstly, the design optimization of the ESS components and the energy management strategies will be considered. Otherwise, the optimization of the drivetrain for EVs applications will be investigated too. The session will cover similarly, the fault tolerant control of electric vehicle powertrains which can affect the energy storage system, the power converters or the electric motor. The considered fields are design, optimization, simulation, modelling, and control for Ev applications.

The topics of interest include, but are not limited to:

- Advances powertrain architectures
- Power electronic converters such as inverters and DC/DC converters;
- Modelling and Simulation of EV powertrains.
- Design of electric motors for EV applications
- Energy management strategies
- Fault tolerant control for EV applications

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **January 07, 2022** :

<http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2022 link** “Submit a Contribution to CoDIT 2022” and follow the steps.

IMPORTANT: All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).

DEADLINES

January 07, 2022: deadline for paper submission

March 4, 2022: notification of acceptance/reject

March 30, 2022: deadline for final paper and registration