“Innovative Components for Vehicle Electrification”

In Collaboration with IEEE-VPPC 2020

Electrification of transportation systems requires the development of increasingly innovative components. From those in the charging infrastructure to those in-vehicle devices. Researches into advanced and innovative electric propulsion technologies are needed to push electrified vehicles to market.

In order to further promote excellence of research in Vehicle Power and Propulsion, in conjunction with the 17th IEEE Vehicle Power and Propulsion Conference (VPPC 2020), a special section in the IEEE Open Journal on Vehicular Technology is organized to focus on research development and future trends of innovative component for Vehicle Electrification. Topics of interest include, but are not limited, to the following:

- Batteries, supercapacitors, flywheels systems embedded in hybrid & electrical vehicles.
- Power electronics converters and electrical machines designed and embedded in innovative electrified vehicles.
- Technology for vehicle charging and vehicle-to-everything.
- Electronics systems for Hybrid Vehicles, Electrical Vehicles, Fuel Cell Vehicles, …
- Automotive, railway, subway, ships, aeronautic, aerospace applications

In this SS, paper relate to system level (i.e. considering a complete vehicle) will not be considered.

Potential authors are invited to submit their original contributions for consideration to be published in this special section. A thorough peer review will be conducted to select top papers to be included in this special section. Only papers presented at the IEEE-VPPC 2020 will be considered in this special issue. Please note that IEEE OJVT requires that a journal submission offer substantive novel contributions beyond the previous work in a conference paper. The submitted papers are require a mandatory extension of at least of 51% of content (ideas), and a new title. Moreover, as the similarity index should be under 50%, the authors are encouraged to take a sufficient margin for avoiding desk rejection.

The conference paper must be uploaded when the journal paper is submitted. Moreover, the cover letter along with manuscript should mention specifically “VPPC 2020 Special Section” and a letter with a list of major differences must also be uploaded with the new paper as a supplementary file. Finally, the reviewing process will include just one round revision and the authors are expected to submit revised papers as soon as the first round of review is received. It should be noticed that the submission deadline will not be postponed respecting the publication date. After this deadline, the papers can be submitted as regular papers but not in this special section.

- Deadlines -

| Manuscript Submission Deadline: | March 30th, 2021 |
| First Decision: | May 15th, 2021 |
| Revised Paper Due: | June 15th, 2021 |
| Final Decision: | July 30th, 2021 |
| Estimated publication date: | August 30th, 2021 |

Manuscript Preparation and Submission
All manuscripts must follow the guidelines under “Information for Authors” in IEEE Open Journal of Vehicular Technology at https://vtsociety.org/ojvt-author-instructions/. Please submit your manuscript in electronic form through Manuscript Central web site: https://mc.manuscriptcentral.com/ojvt On the submission page #1 in the popup menu for the manuscript type, select “Special Issue” and in the special issue topic please select: “Innovative Components for Vehicle Electrification”. The journal is an Open Access Journal with an APC of 1750 USD. A reduction of 30% on APC is reserved for the accepted papers of the special section.

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