

IET Electrical Systems in Transportation



Call for papers for special section

“Design, modeling and control of electric drives for transportation applications”

For extended versions of papers presented at IEEE-VPPC 2016



The development of more electric transportation systems, including not only road vehicles, but also more electric trains, subways, ships and airplanes, is a key issue to reduce the green house emission and more generally the energy consumption. Such a transportation system integrates several complex subsystems: power or energy sources, electric machines, power electronics, mechanical transmission, etc. However, the electric drive still remains a challenge and a lot of recent researches address new motor topologies (for example to reduce or suppress the use of permanent magnets), the use of large band gap semiconductors in power converters, the optimization of the control...

To further promote excellence of research in Vehicle Power and Propulsion, in conjunction with the 13th annual IEEE Vehicle Power and Propulsion Conference (VPPC 2016), a special section in the IET Electrical Systems for Transportation will be published to focus on state-of-the-art research and development as well as future trends in the modeling, design, control, and optimization of electric drives for transportation applications, including electric machines, power electronics for motor drives and motor control.

This Special Section is focused on electric drives. Papers related to vehicles, hybrid and multi-source and electronic for transportation will not be considered, but can be submitted to another special section (see on www.vppc16.org).

Extended versions of papers presented at the IEEE-VPPC 2016 can be submitted with an adapted title. A thorough peer review will be conducted to select top papers to be included in this special section. Please note that a journal submission should offer substantial novel contributions beyond the previous work in a conference paper (no less than 50% of new material and IEEE requires the original paper to be properly cited). The conference paper must be submitted, as a supplementary file, with the new paper.

Topics of interest include, but are not limited to:

- Electric drives modeling and control,
- New topologies of electric machines for transportation systems (powertrain and ancillaries),
- New power electronics devices and topologies and their applications to electric drives for transportation systems,
- Automotive, railway, subway, ships, aeronautic and aerospace applications.

Please note that the paper should be written in the framework of transportation systems and the authors should clearly underline the interest of their works in this context.

- Deadlines -

Manuscript Submission:
Acceptation Notification:
Estimated publication date:

February 15, 2017
October 1st, 2017
December 2017

More info about this special section in <http://www.vppc2016.org>



HANGZHOU, CHINA | OCTOBER 17-20, 2016
The 13th IEEE Vehicle Power and Propulsion Conference

Manuscript Preparation and Submission

Follow the guidelines in “Author Guide”, <http://digital-library.theiet.org/journals/author-guide>, of the IET Electrical Systems in Transportation. Please submit your manuscript in electronic form through Manuscript Central web site: <http://mc.manuscriptcentral.com/iet-est>. Please write in the abstract (in the paper and in the submission box) **Special section “Design, modeling and control of electric drives for transportation applications”**

Guest Editor

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