

IEEE Transactions on Vehicular Technology

Call for Papers for Special Section on



“Electric powertrains for future vehicles”

In Collaboration with IEEE-VPPC 2016

Advanced energy storage and power conversion devices are developed in order to ensure better energy performance, reduced operating cost, and higher lifetime of future transportation systems including not only road vehicles, but also more electric trains, subways, ships and airplanes. Research on advanced electric powertrain technologies is much required, in order to push electric vehicles to a large-scale commercialization.

In order to further promote excellence of research in Vehicle Power and Propulsion, in conjunction with the 13th IEEE Vehicle Power and Propulsion Conference (VPPC 2016), a special section in the IEEE Transactions on Vehicular Technology is proposed to focus on the state-of-the-art research and development as well as future trends in the **electric powertrains for future vehicles**. Papers related to the components by themselves will not be considered in this special section.

Topics of interest include, but are not limited, to the following:

- Batteries, ultracapacitors, flywheels systems embedded in hybrid & electrical vehicles
- Power converters (electrical to electrical, electrical to mechanical, chemical to electrical, thermal to electrical, ...) designed and embedded in more electrical vehicles
- Design, modeling and simulation of powertrains
- Durability issues and accelerated stress tests
- Control & fault-tolerant control
- Hybrid Vehicles, Electrical Vehicles, Fuel Cell Vehicles, ...
- Automotive, railway, subway, ships, aeronautic, aerospace, and robotic applications

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. Extended versions of the papers presented at the IEEE VPPC 2016 are specifically welcomed. Please note that IEEE TVT requires that a journal submission offer substantive novel contributions beyond the previous work in a conference paper (e.g., more than 50% of change). The conference paper and a list of major differences must be submitted along with the new paper as a supplementary file. Moreover, the reviewing process will include just one round revision and the authors are expected to submit high caliber papers as soon as the first manuscript submission.

- Deadlines -

Manuscript Submission Deadline:	March 15, 2017
First Decision:	May 15, 2017
Revised Paper Due:	June 15, 2017
Final Decision:	July 15, 2017
Estimated publication date:	Fourth Quarter 2017

More info about this special section (author guidelines, recent references...): <http://www.vppc2016.org> >> For Authors >> Post-Conference Publications. In order to improve the positioning of your paper, you will find a non-exhaustive selection of papers published in TVT on the topics related to VPP.

Manuscript Preparation and Submission

All manuscripts must follow the guidelines under “Information for Authors” in IEEE Transactions on Vehicular Technology at <http://winet.ece.ufl.edu/tvt/>. Please submit your manuscript in electronic form through Manuscript Central web site: <https://mc.manuscriptcentral.com/tvt-ieee>. On the submission page #1 in the popup menu for the manuscript type, select “Special section” and in the special section topic write: “**Electric powertrains for future vehicles**”

Guest Editor

Daniel HISSEL, IEEE VTS French Chapter Chair, IEEE VPPC 2016 Publication Co-chair, MEGEVH network, FEMTO-ST / FCLAB, CNRS, Univ. Bourgogne Franche-Comte, Rue Thierry Mieg, 90010 Belfort Cedex, FRANCE, Tel: + (33) 384 58 36 21, e-mail: daniel.hissel@univ-fcomte.fr

Co-Guest Editors

João P. TROVÃO, IEEE VPPC 2014 General Co-chair and Technical Program Co-chair, e-TESS Lab., Université de Sherbrooke, DECE, C1 - Pavillon J. Armand Bombardier - C1-3113, 2500, boul. de l'Université, Sherbrooke (Québec), J1K 2R1, CANADA, Tel.: +1 (819) 821-7141 # 65401, Joao.Trovao@USherbrooke.ca

Qinfen LU, IEEE VPPC 2016 Technical Program Committee Co-chair, College of Electrical Engineering, Zhejiang University, Zheda road 38, Hangzhou, 310027, China, Tel: + (86) 13588400151, e-mail: luqinfen@zju.edu.cn