

IEEE Transactions on Vehicular Technology

Call for Papers for Special Section on



“Design, Modeling and Control of Hybrid and Multi-source Vehicles”



In Collaboration with IEEE-VPPC 2015

Advanced energy sources and powertrains 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. Such a vehicle integrates several complex subsystems (power or energy sources, electric machines, power electronics, mechanical transmission, etc.) and it becomes mandatory to consider the whole system in order to reach the best performance.

In order to further promote excellence of research in Vehicle Power and Propulsion, in conjunction with the 12th IEEE Vehicle Power and Propulsion Conference (VPPC 2015), 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 modeling, design, control, and optimization of **hybrid and multi-source vehicles**. Papers dedicated to pure electric vehicles will be not 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. Extended versions of the papers presented at the IEEE VPPC 2015 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.

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

- Design, modeling and simulation of hybrid and multi-source vehicles,
- Energy management and control of hybrid and multi-source vehicles,
- Hybrid Vehicles, Fuel Cell Vehicles, Battery/Ultracapacitor Vehicles, etc.
- Automotive, railway, subway, ships, aeronautic, aerospace, and robotic applications.

- Deadlines -

Manuscript Submission Deadline:	March 1st, 2016
First Decision:	May 1st, 2016
Revised Paper Due:	June 1st, 2016
Final Decision:	July 1, 2016
Estimated publication date:	September 2016

More info about this special section (author guidelines, recent references...): <http://www.vppc2015.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: “**Design, modeling and control of hybrid and multi-source vehicles**”

Guest Editor

Loïc Boulon, IEEE VTS Vice-President - Motor vehicles, IEEE VPPC 2015 General Chair, Hydrogen Research Institute, Université du Québec à Trois-Rivières, CP 500, Trois-Rivières (QC), G9A 5H7, Canada, Tel: + (1) 819 376-5011 #3925, Fax: + (1) 819 376-5219, e-mail: boulon@uqtr.ca

Co-Guest Editors

Claudio Rossi, LEMAD Lab. of power electronic and electric drives for sustainable mobility, University of Bologna, Via Risorgimento 2, 40136 Bologna, Italy, Tel: + (+39) 0512093564, e-mail: claudio.rossi@unibo.it

Anna Stefanopoulou, Automotive Research Center Director, The University of Michigan, 2044 W.E. Lay Automotive Laboratory, 1231 Beal Ave., Ann Arbor, MI 48109-2133 (USA), Tel: + (1) 734.615.8461, e-mail: annastef@umich.edu

Rochdi Trigui, IEEE VPPC2010 co-chair, French Institute of Science and Technology for Transport, Development and Networks (IFSTTAR), MEGEVH network, 25 avenue F. Mitterrand, 69650 Bron, France. Tel: +(33) 4 72 14 25 05, Fax: +(33) 4 72376837, e-mail: rochdi.trigui@ifsttar.fr