



SPECIAL SESSION ON
**IEEE VTS MOTOR VEHICLES CHALLENGE 2019 –
 ENERGY MANAGEMENT OF A DUAL-MODE LOCOMOTIVE**

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This special session follows the IEEE VTS motor vehicle challenge 2019 devoted to the energy management of a dual-mode locomotive. This challenge was launched in August 2018 during the IEEE VPPC 2018 conference, in Chicago, USA. The aim was to develop a robust Energy Management Strategy (EMS) to minimize the consumption of the electricity network and hydrogen; and to increase the lifetime of the fuel cell and energy storage system (<http://www.uqtr.ca/VTSMotorVehiclesChallenge19>). 45 academic and professional teams (101 competitors) from 15 different countries took part in the challenge. The top scoring participants will be distinguished and invited to present their results in this special session at the 2019 IEEE VPPC. This special session is also an opportunity for other participants to present their works on this particular topic.

Topics of interest include, but are not limited to:

- Dual-mode locomotive
- Energy Management Strategy (EMS)
- Fuel cell system
- Short-term Storage Systems (3S): battery and supercapacitors
- Overhead line

Deadlines:

Submission of digest: April 21, 2019

Notice of acceptance: June 23, 2019

Submission of full papers: July 28, 2019

All special session digests must be prepared and submitted in the same way as those for the conference regular tracks (see <http://www.vppc2019.org/>), except that the corresponding special session should be identified during submission.