Special Section on:

Industrial Electronics for Electric Transportation

Electrified transportation provides the option of more efficient operation, more reliability, safety, and smartness. Research on advanced electric transportation technologies is much needed, in order to push them to commercialization. This Special Section is focused on electrified transportation as well as its enabling technologies and related vehicle components: electric machines and drives, advanced motion control technologies, new architectures, new converter topologies, energy storage systems, robust controllers, and embedded electronics.

Editors invite original manuscripts presenting recent advances in these fields with special reference to the following topics:

✔ New electrical power and propulsion system architectures of electric transport vehicles: EV/PHEV/HEV/FCV
✔ Low range, medium range and high range vehicles: motors, drives, power electronics, and electronic control
✔ Intelligent control and energy management strategies for electric transportation
✔ Innovative control strategies for motion, drives and for pulse width modulation (PWM)
✔ High-frequency power converters for transportation
✔ Vehicle to grid and renewables interface technologies including study on effect of parallel vehicles integration
✔ Energy storage options, transient handling issues and related power electronics/energy management issues
✔ On-board, off-board, and wireless charging schemes
✔ Rail transport, air/aerospace transport, sea/undersea transport, and road transport: converter and drive issues.

Manuscript Preparation and Submission

Check carefully the style of the journal described in the guidelines “Information for Authors” in the IEEE-IES web site: http://www.ieee-ies.org/publications.

Please submit your manuscript in electronic form through: https://mc.manuscriptcentral.com/tie-ieee/

On the submitting page #1 in pop-up menu of manuscript type, select: “SS on Industrial Electronics for Electric Transportation“, then upload all your manuscript files following the instructions given on the screen.

Special Section email: SSiect@ieee-ies.org
Submission management email: tie-submissions@ieee-ies.org

Timetable

Deadline for manuscript submissions: 31 May, 2014
Information about manuscript acceptance: Winter, 2014
Publication date: Summer, 2015

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