IEEE Intelligent Transportation Systems Magazine

SPECIAL ISSUE Call for Papers

ELECTRO-MOBILITY

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Abstract: The socio-economic quest towards developing transportation with lower CO2 emission is a global goal of the European Union, Japan and the USA, and a core element for the competitiveness of the whole transportation industry. Electro mobility (or e-Mobility) represents the concept of using electric powertrain technologies, in-vehicle information, communication technologies and connected infrastructures to enable the electric propulsion of vehicles and fleets. These technologies, clearly represented by electric and hybrid vehicles and their interaction with the environment, could be applied as solution to the present mobility challenges, but their implantation is presently limited by a large set of policy, economic and technological constraints. The objective of this Special Issue is to disseminate the best research results from cross-disciplinary researchers working on such Electro-Mobility technologies, as well as to increase the society awareness about the benefits of this new concept of mobility as solution and “evolution” of the future of road mobility. Relevant topics of interest include, but are not limited to:

- ICT for Electro-Mobility
- Electric powertrains
- V2X Communications in electro-mobility
- Human factors in electro-mobility
- Battery technologies
- Socio-economics issues of electro-mobility
- Smartcities and large scale field operational tests
- Power generation influence in electro-mobility
- Urban mobility and urban planning
- Cooperative services for electric vehicle
- Cybernetic Transportation Systems (CTS)

This CFP is a follow-up of the Special Session on Electro-Mobility that was held at IEEE ITSC2013 in The Hague, The Netherlands, October 2013. High quality papers are solicited and will undergo the normal rigorous peer-review procedure of the journal for the inclusion on the Special Issue. Manuscript should be submitted before the deadline at http://mc.manuscriptcentral.com/its by selecting the manuscript type “Special Issue on Electro-Mobility”.

Important Dates:
January 15, 2014 – Submission of Manuscripts
February 20, 2014 – Peer-Review Results
May 20, 2014 – Final Accepted Paper
Fall 2014: Special Issue Publication