CALL FOR PAPERS

Special Issue on "Human Factors in Intelligent Vehicles"

IEEE Transactions on Intelligent Transportation Systems

An initiative of the Artificial Transportation Systems & Simulation (ATSS) Technical Activities Sub-Committee of IEEE ITS Society

Scope & Topics of Interest

The Special Issue on "Human Factors in Intelligent Vehicles" (HFIV) of IEEE Transactions on Intelligent Transportation Systems (IEEE T-ITS) aims to address issues related to the analysis of human factors in the design and evaluation of intelligent vehicles (IV) technologies, in a wide spectrum of applications and in different dimensions. We are pleased to welcome and to encourage prospective authors to contribute with manuscripts reporting on original research in different fields concerning HFIV.

HFIV Special Issue is planned and expected to build upon a proper environment to disseminate knowledge and motivate active discussion and interaction among the technical and the scientific communities, practitioners and students, leveraging state-of-the-art concepts, methodologies and cutting-edge results both to academia and to the Industry. Some topics of interest include (but are not limited to) the following:

- Intelligent user interfaces
- Human-machine interaction
- Human-in-the-loop simulation
- Cognitive and cultural aspects of driving
- Personality and emotions in driver interactions
- Human behavior and capability, affecting system design and operation
- Modeling and simulation in driver behavior analysis
- Ergonomics of traveler information systems
- Tools and approaches to analyze human factors
- Anthropometric layout of vehicular technical systems
- Methodologies to test, validate, calibrate and optimize overall system performance
- Virtual, augmented, and mixed realities
- Cross-Cultural Design
- Augmented Cognition
- User Experience and Usability
- Effects of in-vehicle systems on driver performance
- Tools and methodologies for usability assessment
- I/O modalities in system ergonomic design
- Anticipating reactions through leaning and adaptation
- Methodologies for driver training
- Interactions with disabled-people and people with reduced mobility
- Accessibility of IV technologies
- Parallel Control and Management of Intelligent Vehicles

Manuscript Submission & Publication

Prospective authors are invited to submit contributions reporting on their current research on HFIV related areas and topics. Each paper will be analyzed by at least three reviewers of IEEE T-ITS according to their technical quality, relevance, results and contributions. Accepted papers will be included in the Special Issue on "Human Factors in Intelligent Vehicles" of IEEE T-ITS. Manuscripts must be submitted electronically at http://mc.manuscriptcentral.com/t-its

Important Dates

The schedule for the HFIV Special Issue is as follows:

- Final manuscript (camera ready) submission: Jun 1st, 2014.
- Issue of Publication: September 2014.

Guest Editors

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For more details and up-to-date information, please visit the HFIV Web page: http://hfiv.lfe.mw.tum.de/HFIV IEEE T-ITS/