



## The 2018 IEEE Intelligent Vehicles Symposium (IV'18)

Changshu, Jiangsu, China

June 26 - June 30, 2018

### IV'18 Workshop Call for Paper

•! **Title of the Workshop:**

Decision-Making and Control on Driver-Automation Interaction

•! **Content and List of Topics:**

The idea of shared control in which a human driver and one or more automated driving agents work together presents potentials to take full advantages of ADASs while retains the driver's authority over vehicle control. However, the dynamic and stochastic nature of human driver behaviours and the nonlinearity of vehicle dynamics have brought significant challenges to the accomplishment of driver-automation collaboration. The introduction of ADASs further raises the question of their influence on driver responses and reactions. Towards this end, understanding, modeling, and prediction of human drivers' perception, cognition, decision-making, and actuation processes in typical driving scenarios tend to play a crucial role in improving the acceptability and adaptability of shared control schemes.

The special session aims to provide up-to-date research that could help advance understanding of the interaction between human driver and vehicle automation, so as to promote practical solutions to shared control. The topics of interest include but are not limited to:

- ! Influence of autonomous/semi-autonomous intervention on driver control.
- ! Shared control between human drivers and automated vehicles.
- ! Driver model: perception, cognition, actuation.
- ! Evaluation of human driver trust in automated vehicles.
- ! Transfer and allocation of driving authority, ability, and responsibility.
- ! Driver-vehicle interface design
- ! Learning-based techniques for driver-automation interaction

•! **Full Paper Submission**

You are cordially invited to submit a draft paper (providing sufficient details to allow peer review of the results). The submission of your paper must be done through the conference website. The timeline is as follows:

**January 31, 2018 -- Full paper submission**

**March 31, 2018 -- Notification of paper acceptance**

**April 8, 2018 -- Finally paper submission**

\*When you submit your manuscript to our workshop, please use the **workshop code (ca238)** via <https://its.papercept.net/conferences/scripts/start.pl> with your PIN and passcode.

**NOTE:** High quality papers will be selected and recommended for consideration for special issue in IEEE Transactions on Intelligent Vehicles, IEEE Transactions on Intelligent Transportation Systems, IEEE Intelligent Transportation Systems Magazine, and IEEE/CAA Journal of Automatic Sinica. Authors will be asked to revise their papers according to the journal standards.

•! **Organizers (names, affiliations, and emails):**

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