



Automated vehicle navigation in GPS-denied-or-limited areas may benefit from the detection of specific urban features, such as intersections, road typologies, multi-lane detection, traffic-flow detection without road markings, traffic understanding and modeling, building detections, cartographic maps exploitation, cartographic maps augmentation and other features that we are eager to see used for the localization purposes.

A lot of works were presented toward these areas in the previous ITSC conferences, mainly spread in regular sessions such as “Positioning and Localization”, “Environment Perception” and “Road Perception”. This session aims at bringing together both academic and industry research in the specific domain.

Topics of interest include, but are not limited to:

- detection and exploitation of specific urban features such as buildings, curbs, lanes, intersections and other urban features that cannot be here anticipated
- cartographic map exploitation
- innovative usage of different localization systems/cues for localization
- exploitation of traffic detection and tracking in specific areas, e.g., intersections, for localization
- datasets containing urban features ground truth for benchmark purposes

Important Dates

Paper Submission
31 March 2019

Acceptance Notification
30 June 2019

Final Paper Submission
15 July 2019

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Special session papers will be part of the conference proceedings and will appear in IEEE Xplore®. See the conference website for requirements on authors of accepted papers. Depending on the quality of the papers, the session chairs will arrange a dedicated special issue on a significant journal in the field.

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