



2-dn International Workshop on Traffic and Street Surveillance for Safety and Security

in conjunction with IEEE AVSS 2018, November 29, Auckland, New Zealand

Workshop/contest title

International Workshop on Traffic and Street Surveillance for Safety and Security (T4S)

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Workshop motivation and description

In the last decades, there has been a tremendous increase in demand for smart systems capable to monitor the street security and the traffic state.

Big city centers are subjected to a growing amount of people and vehicle mobility, making the control and security management increasingly difficult. The contribution of automatic systems capable to centralize the street control and automatically detect possible problems (accidents, traffic jam, brawls...) in order to elicit and support the intervention of law enforcement agencies or medical staff.

The proposed workshop is organized jointly with the **Challenge on advanced traffic monitoring** and it is addressed to researcher interested in contributing on the general topic of security on mobility and street applications.

It is goal of this Workshop to provide a comprehensive evaluation to state-of-the-art on systems devoted to city and traffic security.

The joint challenge, based on the UA-DETRAC dataset, has been proposed in AVSS 2018.

RESEARCH PAPERS ARE SOLICITED IN, BUT NOT LIMITED TO, THE FOLLOWING AREAS TOPICS:

Vehicle detection and tracking
Vehicle type classification
Pedestrian detection and tracking
Vehicle/pedestrian behavior
Traffic jam detection
Car/pedestrian accidents
Activity Monitoring Systems
Scene Understanding

Visual Attention and Visual Saliency
Matching vehicles across cameras
Smart Environments
Safety and Security
Technology for Cognition
Navigation Systems
Sensory Substitution
Datasets and Evaluation Procedures

Important remarks

The workshop is connected to the **challenge** on **Advanced Traffic Monitoring**, a challenge (proposed in AVSS 2018) based on the UA-DETRAC dataset (<http://detrac-db.rit.albany.edu>).

Previous editions

The **first edition** of the IWT4S workshop/challenge was held on August 29, 2017 in Lecce (Italy) in conjunction with **AVSS 2017**. During the workshop Serge Palaric (Nvidia Europe) gave a keynote speech. IWT4S 2017 received 18 submissions of papers and, after a double blind revision process, 12 papers were accepted for oral presentation (Acceptance rate 66 %). On the challenge side we received 30 work, 12 of which (above the threshold) have been presented in an additional poster session.

Moreover 4 prizes, provided by the sponsors, have been given to the best works.

More detail are available at: <https://iwt4s.wordpress.com>

Anticipated number of talks/posters and length of workshop

We think to expect a number of submissions between 25 and 30, with an acceptance rate of about 70%. We plan to have full-day including talks (dedicated to the workshop side) and a poster session (dedicated to the challenge side).

Paper Submission Procedure

Papers will be submitted through a Content Management Toolkit. A template will be provided to the authors by considering the guidelines given by AVSS 2018 Workshop chairs.

Revision procedure

Workshop reviewing will be double blind; in that authors will not know the names of the area reviewers of their papers, and area reviewers will not know the names of the authors. Each submitted paper will be revised by three experts.

Tentative paper submission and acceptance deadlines

Submission: July, 15th 2018

Notification: September, 5th 2018

Camera-Ready: September, 15th 2018

Special space and equipment requests

No special space or equipment are required

Event Sponsors/Endorsers (to be confirmed)



National Research Council of Italy



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