

# Intelligent Methodologies for Traffic Data Analysis and Mining

Roads are becoming more and more technological. An ever-increasing amount of traffic information is collected day by day by different entities. This makes it possible and interesting to extract relevant traffic patterns, and possibly associate some of them to different kinds of anomalous behavior, such as accidents, break of driving regulations, road crimes, etc. The focus of this special session is on methodologies and applications of automatic traffic analysis systems that can detect, track, understand and suitably propose to interested stakeholders the behavior of road users, both in general and from the specific perspective of Police activities and investigations. Topics of interest include (but are not limited) to:

- detection and tracking of road users (vehicles, bikes, trucks, etc.);
- behavior understanding of road users;
- automatic understanding of the environment in traffic scenarios;
- applications related to traffic surveillance;
- vehicle accident analysis.

Among the stakeholders of this task, both as data provider and as final users, is the Italian National Police, and specifically its Traffic Police branch, whose peculiar responsibilities include watching over the Italian road network, ensuring road patrolling and investigating on typical crimes made on the road (e.g. car theft). The Italian Traffic Police has accumulated massive historical datasets about traffic on Italian highways, and is willing to share publicly part of these data for research purposes. Researchers interested in obtaining the Traffic Police (TRAP) dataset may contact the organizing committee.

## Paper submission

Authors are invited to submit their manuscripts (maximum 10 pages) electronically in Springer's LNCS/LNAI style. For detailed instructions see the conference homepage (<http://cyprusconferences.org/ismis2018/>); any necessary information concerning typesetting can be obtained directly from Springer's webpage. All submissions will be subject to review by the ISMIS 2018 program committee in consultation with the special session organizers.

The accepted papers will be published in ISMIS 2018 proceedings in Springer's LNAI series.

## Important dates

- Paper submission: May 10<sup>th</sup>, 2018
- Acceptance notification: July 10<sup>th</sup>, 2018
- Camera ready: July 31<sup>th</sup>, 2018
- Author registration deadline: July 31<sup>th</sup>, 2018

## Organizing committee

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