

Cooperative Autonomous Intelligent Vehicles are Advanced Robotic Systems of Systems:

Current Trends & Challenges

June 19-22, 2016, Gothenburg, Sweden

<http://iv16-caiv-workshop.bitballoon.com/>

An International Workshop at the 2016 IEEE Intelligent Vehicles Symposium

In the field of robotics, there is a diverse group of researchers with a focus on multi-robot systems (MRS). Their research covers, among others, multi-robot path planning and autonomous navigation, coordination and collaborative decision making, task allocation or dynamic network optimisation. Since the intelligent transportation systems (ITS) community shares similar research interests and application domains, this workshop tries to bridge the gap between the both communities by looking at complementary as well as similar research topics in both fields. We strongly believe there is a fair overlap in these two communities and we encourage collaborations and cross-fertilisation by submitting a paper to this workshop on your work in one of these fields. The workshop is split up into two major sections, one with a focus on ITS related research and one on MRS related research. Each will have one invited talk and one paper presentation. In between, a poster session will be organised. Paper submissions will be reviewed by the organising committee, which will select the best paper in each category for presentation. The authors of other accepted papers will be invited to present a poster. In the discussion parts of the workshop we hope to instigate participants to interact and discuss similar interests and ideas.

INVITED SPEAKERS

1. Prof Eduardo Nebot, Australian Centre for Field Robotics, will present their work on cooperative situation awareness in intelligent transportation systems.
2. Prof Patrick Doherty, Linkoping University, will present their work on collaborative UAVs.

IMPORTANT DATES

March 15, 2016: Workshop paper submission deadline. Refer to the workshop website for complete dates.

SUBMISSION GUIDELINES

We welcome and encourage contributions reporting on original research, work under development and experiments in both the field of multi-robot systems and intelligent transportation systems, especially on work which can benefit both communities. Prospective authors are invited to submit contributions reporting on their current research and ideas that motivate discussion during the workshop. Accepted papers will be included in the conference proceedings in a digital format and will be indexed in the IEEE Xplore Digital Library. Authors must follow the IEEE Conference format in the preparation of their manuscripts of maximum 6 pages in standard IEEE double column PDF format and submit through the conference submission system. All accepted papers will imply that at least one of the co-authors attends the workshop to present the work. Submission is through **ITS PaperCept**, please ensure to use workshop code **m24m1** when submitting your contribution. More info can be found here: <http://iv2016.org/authors/authors-2/>

ORGANIZING COMMITTEE

Johan Philips, KU Leuven, Belgium (Contact Person: johan.philips [AT] kuleuven.be)

Alejandro Mosteo, Centro Universitario de la Defensa in Zaragoza, Spain

Danilo Tardioli, Centro Universitario de la Defensa in Zaragoza, Spain

Sazalinsyah Razali, Universiti Teknikal Malaysia Melaka, Malaysia

Lorenzo Sabbatini, University of Modena and Reggio Emilia, Italy

[IEEE RAS Technical Committee on Multi-Robot Systems](http://www.ieee-ras.org/)