

SCOPE

The Symposium will consider generic methodologies and techniques applicable to intelligent autonomous vehicles. These include mobile robots on land, at sea, in air or in space, multi vehicle systems and networks of autonomous vehicles.

It will address sensing, sensor integration and perception, architectures, planning, mission and motion control, navigation and cooperative navigation techniques, SLAM, teleoperation, human and vehicle interaction and practical applications. The focus of the Symposium will span from intelligent vehicle control to auxiliary systems support.

TOPICS

Key topics will include (but not be limited to):

- Architectures for intelligent autonomous systems including teams of autonomous vehicles;
- Control, Guidance, and Navigation of autonomous robots (indoors, outdoors, land, air, space, marine): modeling and control, trajectory tracking and path following, navigation systems, planning, recognition, localization, map building, SLAM;
- Sensors and sensor integration in autonomous robots;
- Intelligent transportation systems;
- Service robotics, domestic robotics, rehabilitation and biomedical robotics, field robotics, entertainment robotics, ocean exploration robots;
- Redundant robots;
- Multiple Vehicle Systems and Networks of Autonomous Vehicles: cooperative navigation and control of homogeneous and heterogeneous teams, cooperative control under severe communication constraints, cooperative perception, communications.

CORRESPONDENCE

The Symposium Secretariat can be contacted by email at the address iav2010@unile.it or by writing to IAV 2010 Secretariat c/o Giovanni Indiveri, Dipartimento Ingegneria

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SPECIAL THANKS TO



FIRST ANNOUNCEMENT AND CALL FOR PAPERS

International Federation of Automatic Control



IAV 2010

7th IFAC Symposium on Intelligent Autonomous Vehicles

September 6 - 8, 2010
Lecce - Italy

<http://iav2010.unile.it>

Organized by:



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Università del Salento
Lecce, Italy
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Please refer to the Symposium web page <http://iav2010.unile.it> for details.

SUBMISSION

For general information about the Symposium please visit the web page <http://iav2010.unile.it>. The paper submission system will be fully electronic. Hard copy paper submission will not be possible. An online paper submission system (including the Author's Kit and

Instructions) will be made available in due time on the Symposium web page.

Accepted papers must comply with the standard IFAC conference format and must not exceed 6 two-column pages. Detailed formatting instructions can be found at the IFAC Publications Website. The official language will be English. A full registration fee on behalf of one of the authors will be required at the time of uploading the final version of accepted papers.

DEADLINES (EXTENDED)

Submission of Full Draft Papers: 22 January 2010

Notification of Acceptance: 1 May 2010

Submission of Final Papers: 11 June 2010

Refer to the Symposium web page <http://iav2010.unile.it> for details.

LOCATION

The IFAC IAV 2010 Symposium will take place in the town of Lecce. Located in the southern Italian region named Puglia, Lecce is the principal city of a geographical area known as Salento, that is the "tip of the heel" of the Italian peninsula. Lecce is one of the five main cities of Puglia with a population of about 90000 inhabitants. The town is well known, among the rest, for its elaborate baroque architecture ("barocco Leccese"), for its excellent food and wine and its great weather. The average temperature is of 30.6 degrees Celsius in August and of 26.8 degrees Celsius in September. Lecce is approximately 60 meters on the sea level at about 20Km from the Adriatic coast and 40Km from the Ionian coast, both well known for the beauty of the landscape and of the sunny beaches.

The Symposium will be hosted by the University of Salento in the city center. The town can be easily reached by airplane, car or train: the closest airport is located in Brindisi at about 35Km. Please visit the Symposium web page (<http://iav2010.unile.it>) or contact the Symposium secretariat at iav2010@unile.it for further information.

