Scope

MCMC'2012 has two main objectives: to bring together key academic and industrial practitioners for discussions and demonstrations of recent advances in navigation, guidance and control of marine crafts and to provide a forum where experienced researchers can engage with each other and with post-doctoral students in order to share experiences, motivate new research agendas, describe scientific and commercial applications, and explore avenues for future research.

MCMC'2012 will provide an excellent opportunity for the presentation and discussion of research and development work in the general area of automatic control with applications to the maritime field.

Motivated by recent, fast paced developments in the area, special emphasis will be given to cooperative systems, focusing the discussion on a number of topics that include navigation, guidance, and control of robotic marine platforms, including autonomous surface and underwater vehicles.

Topics

- Ship manoeuvring
- Ship autopilots
- Roll damping
- Surface ship track control
- High speed vessels
- Offshore systems modelling and control
- Information systems and methods
- Intelligent marine control systems
- Thrusters and propulsion
- Modelling and identification
- Navigation, guidance, and control of autonomous surface and underwater vehicles
- Control of ROVs
- Vision systems
- Environment monitoring and protection
- Sensors and sensor integration in autonomous robots
- Fault detection and accommodation
- Operational safety
- Cooperative navigation and control
- Cooperative control under severe communication constraints
- Architectures for teams of robotic marine vehicles

Copyright conditions

The material submitted for presentation at an IFAC meeting (Congress, Symposium, Conference, Workshop) must be original, not published or being considered elsewhere. All papers accepted for presentation will appear in the Preprints of the meeting and will be distributed to the participants. Proceedings of the IFAC Congress, Symposia, Conferences and Workshops will be hosted on-line on the IFAC-PapersOnLine.net website. The presented papers will be further screened for possible publication in the IFAC Journals (Automatica, Control Engineering Practice, Annual Reviews in Control, Journal of Process Control , Engineering Applications of Artificial Intelligence, and Mechatronics), or in IFAC affiliated journals. All papers presented will be recorded as an IFAC Publication.

Information for authors

The paper submission system will be fully electronic.

Accepted papers must comply with standard IFAC conference format and must not exceed 6 two-column pages.

New instructions for IFAC authors are available at **http://www.ifac-control.org/events/information-for-ifac-authors**

Rules regarding registration fees and paper submissions are available at
http://www.mcmc2012.issia.cnr.it/registration.htm

FINAL ANNOUNCEMENT

International Federation of Automatic Control

MCMC 2012

9th IFAC Conference on Manoeuvring and Control of Marine Craft

September 19-21, 2012 Arenzano, Italy

http://www.mcmc2012.issia.cnr.it

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CNR-ISSIA personnel will be available to support you.

Patronage

Deadlines

Early registration: July 20, 2012
Final papers submission: August 15, 2012

Please refer to the Conference web page http://www.mcmc2012.issia.cnr.it for details.

Venue

MCMC'2012 will be held at the Grand Hotel Arenzano, a traditional beach resort located in the Riviera Ligure di Ponente (West Riviera) quite close to Genova (18 Km from Genova airport; about 25 Km from Genova city centre). Population: about 11500 people.

The town is easily reachable by airplane, train or car. The closest airport is Genova (code GOA), located at 18 Km from Arenzano. Please, visit the Conference web site for more information.

Technical sponsorship