CALL FOR PAPERS

MARSS 2011

International Workshop on Marine Sensors and Systems

October 17-22, 2011, Valencia (Spain)

http://mass2011.upv.es/marss2011/index.html

In conjunction with IEEE MASS 2011

General Chairs

Miguel Ardid, Univ. Politécnica de Valencia, Spain

TPC Chairs

Victor Espinosa, Univ. Politécnica de Valencia, Spain Demetrio de Armas, Instituto Español de Oceanografía, Spain

Publicity Chairs

Sandra Sendra, Univ. Politécnica Valencia, Spain

Web Chair

Miguel Garcia, Univ. Politécnica Valencia, Spain

TCP Members

Alicia Lavín, Instituto Español de Oceanografía, Spain Álvaro Suárez, Univ. of Las Palmas de Gran Canaria, Spain Angel Catala, Univ. Politécnica de Valencia, Spain Antonio J. Sánchez Salmerón, Univ. Politécnica de Valencia, Spain Antonio M. Sánchez Matías, Univ. Politécnica de Valencia, Spain Carl Gorjak, Institut national des sciences de l'Univers -CNRS, France Charalampos Tsimenidis, Newcastle University, UK Elsa María Macías, Univ. of Las Palmas de Gran Canaria, Spain Gabriela Andreu García, Univ. Politécnica de Valencia, Spain Gianni Pavan, Università di Pavia, Italy Giorgio Riccobene, Laboratorio Nazionali del Sud - Catania, Italy Gui Yun Tian, Newcastle University, UK Jaime Lloret, Univ. Politécnica de Valencia, Spain Joan A. Martínez-Mora, Univ. Politécnica de Valencia, Spain José García, La Maquinista Valenciana, Spain José Pelegrí, Univ. Politécnica de Valencia, Spain Juan José Hernández-Rey, Instituto de Física Corpuscular - CSIC, Spain Juan Zuñiga, Instituto de Física Corpuscular, Univ. de Valencia, Spain Kay Graf, University of Erlangen-Nuremberg, Germany Lee Thompson, University of Sheffield, UK Manuel Bou-Cabo, Univ. Politécnica de Valencia, Spain Michel Andrée, Univ. Politécnica de Catalunya, Spain Miguel García, Universitat Politécnica de Valencia, Spain Miguel Canals, Univ. de Barcelona, Spain Pascale Keller, Centre de Physique des Particules de Marseille, France Pascal Lorenz, University of Haute Alsace, France Pedro Yuste, Univ. Politécnica de Valencia, Spain Robert Lahmann, University of Erlangen-Nuremberg, Germany Sandra Sendra, Univ. Politécnica de Valencia, Spain Sara Blanc Clavero, Univ. Politécnica de Valencia, Spain Sean Danaher, University of Northumbria, UK Vicente Carrasco, SIMRAD SPAIN, S.L.U., Spain Vicent D. Estruch, Univ. Politécnica de Valencia, Spain

Important Dates

Paper Submission: 16 July 2011 Paper Acceptance: 10 August 2011 Camera-Ready: 26 August 2011

Scope:

Sensor networks and sensor-based systems support many applications today on the ground. Underwater operations and applications are quite limited by comparison. Most applications refer to remotely controlled submersibles and wide-area data collection systems at a coarse granularity. Underwater sensor networks have many potential applications such a seismic imaging of undersea oil fields as a representative application. Oceanographic research is also based on the advances in underwater data collection systems.

There are specific technical aspects to realize underwater applications which can not be borrowed from the ground-based sensors net research. Radio is not suitable for underwater systems because of extremely limited propagation. Acoustic telemetry could be used in underwater communication; however off-the-shelf acoustic modems are not recommended for underwater sensor networks with hundreds of nodes because they were designed for long-range and expensive. As the speed of light (radio) is five orders of magnitude higher than the speed of sound, there are fundamental implications of time synchronization and propagation delays for localization. Additionally, existing communication protocols are not designed to deal with long sleep times and they can not shut down and quickly restart.

The International Workshop on Marine Sensors and Systems, MarSS, brings together practitioners and researchers or discussion and work on the emerging aspects pertaining to the new mechanisms for underwater sensor networks and applications.

Topics of interest:

Authors are invited to submit complete unpublished papers, which are not under review in any other conference or journal, including, but are not limited to, the following topic areas:

- Protocols for underwater sensor networks
- Hardware for marine sensors and systems
- Marine observatories and Infrastructures
- Underwater wired systems
- · Underwater wireless sensor networks
- · Sensors and system for marine neutrino telescopes
- Acoustic and radio underwater communication
- Aquatic environments and applications
- Unmanned underwater exploration
- Underwater localization and knowledge acquisition
- Scalable underwater monitoring and measurement systems
- Fixed and mobile underwater wireless sensors
- Aquatic surveillance applications
- QoS/Performance in underwater communication
- Surface-floating and underwater sensor communication
- Access control in underwater networks
- Latency effects for critical applications and synchronization
- Synchronization and delays in underwater sensor networks
- Localization in underwater sensor networks
- Advanced underwater sensor-based applications
- Sensor and systems for navigation and tracking

Submission guidelines

All submissions must be full papers in PDF format and uploaded on EDAS. http://edas.info/newPaper.php?c=10975

INSTITUTO ESPAÑOL

DE OCEANOGRAFÍA

They must not exceed 6 single-spaced, double-column pages using 10 pt size fonts on 8.5 x 11 inch pages in IEEE style format.





