

Call for Papers
5th International Workshop on
Information Fusion and Geographical Information Systems:
Towards the Digital Ocean (IF&GIS 2011)
May 10-11 2011, Brest, France

Workshop Chairs

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The 5th International Workshop on Information Fusion and Geographical Information Systems (IF&GIS 2011) is a premier event in the development of theories, models and advanced applications of Geographic Information Systems (GIS). It follows a series of successful workshops held in 2003, 2005, 2007 and 2009 in St. Petersburg. It has been continuously organised by the OOGIS research laboratory of the St Petersburg Institute for Informatics and Automation. The 5th event will move to Brest in France with a specific focus on maritime geographical information systems and the digital ocean. It will be organised under the umbrella of the 3rd International conference on Safer Seas. The 5th IF&GIS workshop will bring academic and industrial experts from a large set of fields such as GIS, mathematics, statistics, artificial intelligence, geography, computational geometry, cognitive science, spatial databases, visualisation, environment sciences, underwater acoustics. The scope of the 5th IF&GIS workshop will address several research issues from the modelling, analysis, information processing and visualization of geographical information with a specific application to the maritime environment. The IF&GIS workshop will encourage multi-disciplinary approaches to shipping and navigation, monitoring, planning and surveillance of maritime areas as well as the concept of maritime safety and security, and maritime transportation. Contributions are expected from academics and PhD students from a wide range of disciplines. The specific scientific domains covered include but are not limited to:

- Artificial Intelligence
- GIS ontologies
- GIS data integration and modelling
- Underwater acoustics
- GIS data fusion
- GIS and corporate information systems
- GIS and real-time monitoring systems
- GIS algorithms and computational issues
- Novel and emerging marine GIS research areas
- Monitoring of maritime terrorist threat
- Maritime and environmental GIS
- Navigation-based and maritime transportation GIS
- Human factors in maritime GIS
- Coastal and environmental GIS

The suggested Workshop scope includes though not limited to the above list as far as they are specifically concerned with the maritime environment at large. The forthcoming international IF&GIS Workshop encourage presentation of scientific and technological innovations and opportunities to make seas safer and cleaner, and to periodically measure the ground covered and new challenges with respect to economic and shipping trends.

All papers accepted for the Workshop will be published in the series Springer-Verlag Lecture Notes in Geoinformation & Cartography (LNG&C) series after the workshop. Preliminary proceedings will be available in CD-version at the time of the workshop.

Formatting instructions for full paper submissions are available at <http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0> and on the Web site of the workshop: <http://if-gis.com/>

Important Dates

- June 30, 2010 – Full paper submission
- September 15, 2010 – Notification of acceptance
- October 15, 2010 – Camera-Ready copy due