CALL FOR PARTICIPATION (CFP)
WORKSHOP ON MOVING OBJECTS AT SEA: OPERATIONAL FRAMEWORKS AND SYSTEMS

The maritime environment has a huge impact on the World economy and our everyday lives. It is a domain where a lot of important human activities take place such as transportation, fishing, tourism, sailing etc. The past few years have seen a rapid increase in research oriented to the development of information-oriented infrastructures and systems addressing many aspects of data integration, analysis, visualisation and diffusion of data related to movement at sea at large (e. g., maritime navigation, marine life).

The objective of this workshop is to bring together academics and practitioners that have developed and demonstrated advances in the development of methods, operational frameworks and systems oriented at large towards moving objects at sea. Proposals in the following themes are of interest but not limited to:

- Integration of heterogeneous maritime databases: sensors, spatio-temporal databases, pre-processing that include errors, query language, filtering and reconstruction algorithms, big data, SOLAP.
- Patterns discovery and analysis of moving objects at sea: modelling approaches, trajectory querying and simplification, automatic annotation and semantic issues, similarity functions, classification and clustering algorithms, knowledge discovery (trends, unusual behaviours, and event detection).
- Physical-based analysis : correlation between environmental data (currents, tides, winds) and moving objects at sea
- Simulation and decision-aid system: interpolation and extrapolation of maritime data for simulation and analysis, 2D and 3D geo-visualisation, tracking and context-aware monitoring systems.

Scope:
The workshop is embedded within the European COST-Action MOVE (http://move-cost.info), but open to all interested researchers. Oral presentations and demos are foreseen, as well as time for discussion. Extended abstracts including references (2-4 pages in LNCS format) should be sent to cyril.ray@ecole-navale.fr.

ChoroChronos.ORG Researchers without data and/or interested by applying existing algorithms and techniques to maritime traffic can freely use the available dataset (details at http://public.ecole-navale.fr/~cyril.ray/move/). A session will be dedicated to the analysis and visualisation of this specific dataset, other experiments oriented to marine life or any specific subject oriented to moving objects at sea are also welcome.

Organizing committee:
Cyril Ray and Christophe Claramunt (Naval Academy Research Institute)
Yannis Theodoridis, Nikos Pelekis (University of Piraeus)

Important dates and deadlines:
12th April 2013 - Call for presentation ends.
19th April 2013 - Authors notified.
17th May 2013 - Registration deadline.
27-28 June 2013 - Workshop.

Location: Brest, France