



TECNOPOLO
DELLA NAUTICA

Prof. Ing. Alfredo Liverani PhD

University of Bologna – Italy

Curriculum Vitae



Prof. Eng. Alfredo Liverani, PhD, from 2004 is associate professor in Design Methodologies at Bologna University. His main scientific interests deal with several research projects related to Computer Aided Design (CAD), Nautical and Naval Design Engineering Methods, Computer Graphics with applications on real-time visualization and interaction. Researches and projects are focused on mechanical and nautical applications, matching also Industrial Design in terms of advanced methodologies, like complex surface modelling, reverse engineering, mesh generation (FEM) and manipulation, virtual prototyping and live simulations for aesthetics evaluation. Over 90 publications available at <http://diem1.ing.unibo.it/personale/liverani>.

Graduated in 1994, in the February 2000 he got PhD degree with a thesis titled "A Virtual Reality system for engineering design". Prof. Alfredo Liverani is now coordinator of several national and international research projects centered on high innovation grade.

Tecnopolo della Nautica



From 2011, Head of Tecnopolo della Nautica – University of Bologna, an applied research group related to nautical and naval topics (<http://www.tecnopolonautico.it>). The research unit and laboratory is located in Ravenna and develops innovative technologies in nautical field, i.e.:

- Simulations
 - CFD (Computational Fluid Dynamics)
 - FEM (Finite Element Method)
- Experimental:
 - materials tests
 - data acquisition and scanning systems
 - Verification and control systems
- Design and engineering



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Luna Rossa Challenge

LUNA ROSSA

CHALLENGE 2013



Tecnopolo della Nautica is technical consultant of Luna Rossa Challenge team for foils development, thanks to its specific knowledge in CFD (Computational Fluid Dynamic) and equipment for high performance computation.



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ISYE (International School of Yacht Engineering)

ISYE

International School of Yacht Engineering



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Prof. Alfredo Liverani is also organizer and director of ISYE (International School of Yacht Engineering), organized in 2009 to nowadays in Ravenna, with collaboration of several shipyard and nautical designers.