

HPYD4 – Accepted Abstracts

- Sampaio, L. - A new low-spurious-error discretization scheme specially suited for the VOF method, and its applications in hull simulation
- Saydam, Z. - Investigation of scale effects in sailing yacht hydrodynamic testing
- Cudby, K. - Using parametric modelling, CFD, and historical data to estimate planing hull performance on a laptop
- Norris, S. - CFD models of sail aerodynamics using Reynolds stress models
- Hutchison, C. - Model testing -what's the point? A review of yacht testing and the implications for yacht designers
- Salin, N. - Modernization and calculation of the windage of sailing boats standing rigging
- Campbell, I. - Tuning of appendages for an IMOCA60 yacht
- Barry, C. - Composite techniques for affordable limited production, sustainable high performance yacht construction; not what you might think
- Lozej, M. - Pressure distribution on sail surfaces in real sailing conditions
- Fossati, F. - Sailing yacht aerodynamics in dynamic conditions
- Kleinschmit, B. - Development of the AC72 Class Rule
- Imas, L. - Hydrodynamic Performance of a submerged lifting surface operating near the air-water interface at high speeds
- Hutchins, N. - Sail CFD and wind tunnel testing for VOR70 Design
- Larsson, L. - Investigation of keel bulbs for sailing yachts
- Viola, I. - On the CFD modelling uncertainty of IACC yachts
- Blake, C. - The hydrodynamics of a high-performance semi-planning hull modelled using CFD
- Boegle, C. - Speed vs stability: Design considerations and velocity prediction of a hydro-foiled international moth
- Le Pelley, D. - Aerodynamic force deduction on yacht sails using pressure and shape measurements in real time
- Maltz, F. - Robust seaway synthesizer for sailing yacht numerical performance prediction
- Visonneau, M. - Anisotropic grid adaptation for RANS simulation of a fast manoeuvring catamaran
- Campbell, I. - Evaluation of wind tunnel test results for downwind sail development
- Wallace, J. - Thin ply technology for high performance composite marine structures
- Prono, D. - Prediction of wave-induced loads on a 50' trimaran by mesh-free methods
- Tahara, Y. - CFD calculation of downwind sail performance using flying shape measured in the wind tunnel
- Calmon, M. - Hydroelastic behaviour of a foil with variable immersion
- Huetz, L. - Systematic study of the hydrodynamic forces on a sailing yacht hull using parametric design, CFD and principal component regression.
Application to VOLVO 70 design
- Eggers, R. - Steering balance and manoeuvring of sailing yachts predicted with slender body and cross-flow drag theory
- Gaillarde, G. - From quasi-steady to unsteady hydrodynamics; how dynamic effects can influence sail yacht performance
- Augier, B. - The unsteady aspect of yacht sails dynamic: Full scale experimental study on fluid structure interaction
- Lake, S. - Strength of sandwich to single skin transitions
- Battley, M. - Effect of stiffener compliance on response of curved hull panels
- Wilson, R. - A more sustainable hull form
- Baker, B. - Maximum power coefficient method for approximating sail aerodynamics
- Richards, P.J. - Wind tunnel investigation of the interaction between two sailing yachts
- Andrillon, Y. - Coupled flow-structure simulations of a catamaran
- Basset - Is carbon lighter than air?
- Boeck, F. - Side force generation of slender hulls
- Lombardi, M. - Numerical simulation of sailing boats, FSI, and shape optimization
- Goutard, M. - Numerical Modelling of Slamming on elastic panels using a coupled FE-FV Method