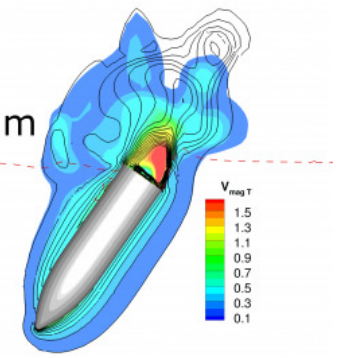


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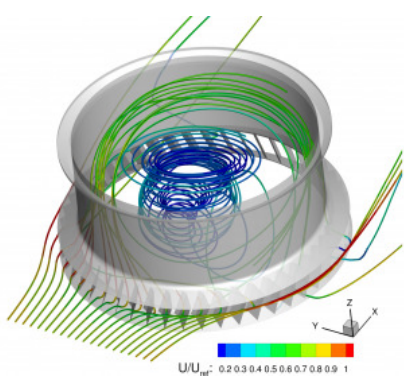
29th September - 1st October, 2019

Tomar, Portugal



Programme NuTTS 2019, Tomar Sunday 29 September

12:30-13:50	Lunch
13:50-14:00	Welcome Address
14:00-15:40	Session 1, Chairman: Guilherme Vaz
14:00-14:25	<i>Towards numerical simulation of wave impacts in an LNG tank</i> Ronald A. Remmerswaal and <u>Arthur Veldman</u>
14:25-14:50	<i>Numerical Investigation of a General Cargo Vessel Wake in Waves</i> <u>Mohsen Irannezhad</u> , Arash Eslamdoost, and Rickard E. Bensow
14:50-15:15	<i>Numerical Study on Wave Drift Force of Advancing Ship in Bow Seas</i> <u>Kyung-Kyu Yang</u> , Yoo-Chul Kim, Kwang-Soo Kim, Jin Kim, Bo Woo Nam and Min-Guk Seo
15:15-15:40	<i>2D Numerical Simulation of Human Underwater Undulatory Swimming</i> <u>Dorian A. G. Audot</u> , Joseph Banks and Dominic Hudson
15:40-16:10	Coffee Break
16:10-18:15	Session 2, Chairman: Christiaan Klaij
16:10-16:35	<i>eXtended Discontinuous Galerkin (X-DG) method for a bi-material elliptic problem</i> <u>Ahmed Sherif</u> , Michel Visonneau, Ganbo Deng and Luís Eça
16:35-17:00	<i>Unsteady RANS simulation of a flow past a free-surface piercing circular cylinder</i> <u>Maité Gouin</u> , Adrien Doradoux and Ronan Le Creurer
17:00-17:25	<i>Simulation of plunging breaking waves induced by a submerged bump</i> <u>Qiu Jin</u> , Dominic Hudson, Pandeli Temarel
17:25-17:50	<i>Numerical simulation of bi-stable ventilated flows around surface-piercing hydrofoils</i> Moran Charlou, <u>Jeroen Wackers</u>
17:50-18:15	<i>Towards a Fast Fitting Method for 3D Free Surface Flow</i> <u>Toon Demeester</u> , E. Harald van Brummelen and Joris Degroote
20:00	Dinner at the Taverna Antiqua

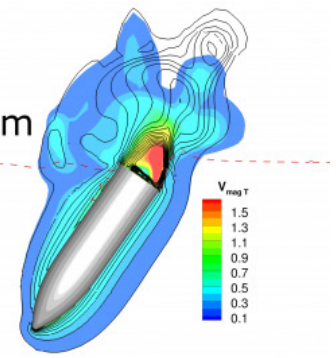


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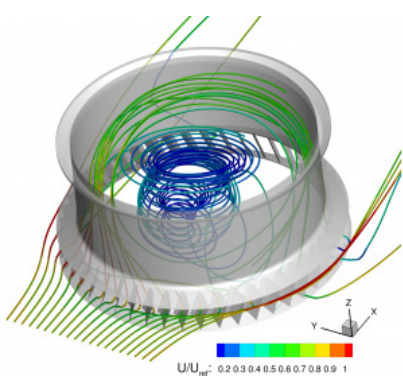
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Programme NuTTS 2019, Tomar Monday 30 September

8:20-10:00	Session 3, Chairman: João Baltazar
8:20-8:45	<i>CFD simulation of propeller noise</i> Takuya Tachikawa, <u>Nobuhiro Hasuike</u> and Keita Fujiyama
8:45-9:10	<i>Numerical and Experimental Study on the Duisburg-Test-Case (DTC) Propeller</i> <u>Chiara Wielgosz</u> , Rafael Golf, Artur K. Lidtke, Guilherme Vaz and Ould el Moctar
9:10-9:35	<i>Development of a Mesh Refinement Process for the Prediction of Propeller Tip Vortex Cavitation</i> <u>Ronan Doherty</u> , James Alderton and William Batten
9:35-10:00	<i>Numerical Prediction of Cavitation Damage for the Flow through a Nozzle Using a Multi-Scale Euler-Lagrange Method</i> <u>Andreas Peters</u> , Udo Lantermann and Ould el Moctar
10:00-10:30	Coffee Break
10:30-12:35	Session 4, Chairman: Rickard Bensow
10:30-10:55	<i>Numerical simulation of dynamic behaviour of an azimuth thruster in seaways</i> <u>Vladimir Krasilnikov</u> and Nabila Berchiche
10:55-11:20	<i>Effect of Cavitation on the Structure of Tip Leakage Vortex in an Axial Water-Jet Pump</i> <u>Mohammad Hossein Arabnejad</u> , Arash Eslamdoost, Urban Svennberg and Rickard E. Bensow
11:20-11:45	<i>CFD Study on Propeller-Induced Pressure Pulses in Cavitating Flows</i> <u>Keun Woo Shin</u> and Poul Andersen
11:45-12:10	<i>Design of Ducted Propellers</i> <u>Margot Remaud</u> , P-M Guilcher, J.-B. Leroux and J.-M. Laurens
12:10-12:35	<i>Propeller Performance Prediction in an Artificially Generated Wake Field Using RANSE</i> <u>João Baltazar</u> , Bart Schuiling and Douwe Rijpkema
12:35-14:00	Lunch

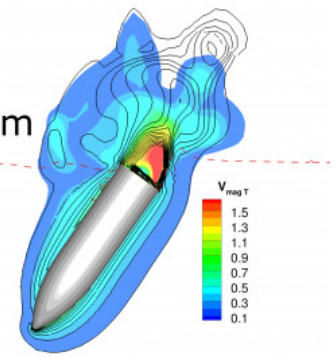


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Programme NuTTS 2019, Tomar Monday 30 September

14:00-15:40 Session 5, Chairmain: Bettar El Moctar

14:00-14:25 *Investigations and Guidelines for Maneuvering Simulations*
Pierre Le Bihan, Benoit Mallo and Charles Hirsch

14:25-14:50 *The Influence of Hydrodynamic Assumptions on Ship Maneuvering*
Ghalib Taimuri, Tommi Mikkola, Jerzy Matusiak, Pentti Kujala and Spyros Hirdaris

14:50-15:15 *Acquisition of Maneuvering Characteristics of Ships using RANS CFD*
Marin Lauber, Pandeli Temarel

15:15-15:40 *The use of BEMT and a Transient Timoshenko Beam to Obtain Vibration Properties of Propeller Blades Under Manoeuvring Conditions*
Nicholas McCaw and Stephen Turnock

15:40-16:10 Coffee Break

16:10-18:15 Session 6, Chairman: Volker Bertram

16:10-16:35 *RANS simulations for the turbulent uniform and channel flow using HDG for incompressible flow*
Hashim Elzaabalawy, Ganbo Deng, Luís Eça and Michel Visonneau

16:35-17:00 *On the Need for Higher Order Interpolation with Overset Grid Methods*
Sebastien Lemaire, Guilherme Vaz and Stephen Turnock

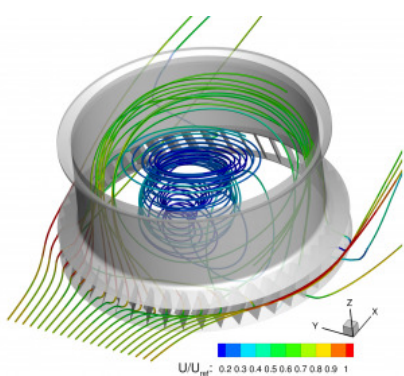
17:00-17:25 *Anderson-Accelerated Convergence for Incompressible Navier-Stokes Equations*
Auke van der Ploeg

17:25-17:50 *Assessing ReFRESKO Compressible Single Phase Flow Solver Numerical Robustness*
João Muralha, Luís Eça and Christiaan Klaij

17:50-18:15 *Parametric Uncertainty Quantification applied to the Duisburg Propeller Test-Case*
Eduardo Tadashi Katsuno, Artur K. Lidtke, Bülent Düz, Douwe Rijpkema and Guilherme Vaz

18:15-18:30 NuTTS 2020

20:00 Dinner

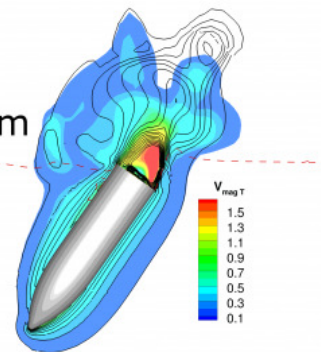


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Programme NuTTS 2019, Tomar Tuesday 1 October

8:20-10:00 Session 7, Chairman: Auke van der Ploeg

8:20-8:45 *Comparison of Wall Function Model with Low-Reynolds Number Model under Roughness Effect Condition at Actual Ship Scale*
Kunihide Ohashi

8:45-9:10 *Numerical analysis of the container vessel's self-propulsion at different rudder deflection angles*
Michał Wawrzusiszyn, Radosław Kołodziej and Sebastian Bielicki

9:10-9:35 *Investigations for CFD Based Form Factor Methods*
Kadir Burak Korkmaz, Sofia Werner and Rickard Bensow

9:35-10:00 *Performance of turbulence closures for vortex interaction physics over military aircraft*
Michel Visonneau, Emmanuel Guilmineau and Ginevra Rubino

10:00-10:30 Coffee Break

10:30-12:35 Session 8, Chairman: Michel Visonneau

10:30-10:55 *Parametric analysis of the three-column spar platform for 6MW offshore wind turbine*
Paweł Dymarski and Ewelina Ciba

10:55-11:20 *Simulation of the Dynamics of Spar-type Floating Offshore Wind Turbine in the ANSYS Aqwa Environment Extended by the Coefficients of Viscosity Forces Determined on the Basis of RANSE-CFD Analysis*
Ewelina Ciba and Paweł Dymarski

11:20-11:45 *Dissecting the aerodynamics of Morpho butterfly flight using various turbulence models*
Dario Amadori, Jaap Windt, Camille Le Roy and Florian Muijres

11:45-12:10 *Towards the Modeling of Laminar to Turbulence Transition for Incompressible Flows*
Ginevra Rubino and Michel Visonneau

12:10-12:35 *Turbulence Decay Corrections for Transitional Flow Calculations*
Rui Lopes, Luís Eça and Guilherme Vaz

12:35 Lunch