

Special Issue

Vortex-Induced Vibration

Message from the Guest Editor

Vortex-induced vibrations (VIV) is a nonlinear flow–structure interaction phenomenon found in various civil, ocean, subsea, mechanical and aerospace engineering applications where the vortex-shedding hydrodynamic forces excite and interact with flexible structures. VIV is governed by several fluid–structure parameters entailing a variety of nonlinear dynamic scenarios. Over the past few decades, modelling, simulation, experiment and control of VIV have been advanced. Novel concepts of extracting energy from VIV have also been innovated. Despite such a great deal of research, several significant challenges and insights remain to be discovered and discussed from both theoretical and practical viewpoints. This Special Issue aims to collate the state-of-the-art research on VIV, highlighting the next-generation prediction models, numerical approaches, experiment studies and computational fluid dynamic simulations. Researchers are invited to submit original papers presenting new ideas, concepts, approaches and parametric findings. Topics to be covered include:

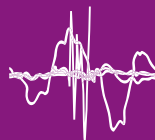
Guest Editor

Dr. Narakorn Srinil

Marine, Offshore & Subsea Technology Group, School of Engineering,
Newcastle University, Newcastle upon Tyne NE1 7RU, UK

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4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Aleksandar Pavic

College of Engineering, Mathematics and Physical Sciences, University
of Exeter, Kay Building, Exeter EX4 4QF, UK

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