# **Special Issue**

# Design and Experimental Activity of Testing Machines and Mechanical Test Rigs

# Message from the Guest Editors

Many mechanical applications require very specific testing of components and materials, such as turbomachinery, which undergoes fretting fatigue or dynamic vibrations, full-scale testing of large components, or gears of any size and other mechanical power transmission components, etc. Each of these applications usually require a dedicated test rig or at least the development of a piece of equipment to be combined with an already-existing testing machine. Most of the time, these testing facilities need to be both conceived and then designed and commissioned. This activity is usually guite demanding, not only in terms of budget, but also guite challenging from a design point of view. Moreover, these testing machines usually require a significant electronic and control part which needs to be interfaced and properly tuned with the mechanical devices. This Special Issue aims to comprehensively showcase all the steps of the design of any of these testing devices. Both the mechanical design and/or the control systems are interesting topics of this Special Issue.

## **Guest Editors**

Prof. Dr. Ciro Santus

Department of Civil and Industrial Engineering—DICI, University of Pisa, Largo Lucio Lazzarino 1, 56122 Pisa, Italy

Dr. Massimiliano De Agostinis

Department of Industrial Engineering, University of Bologna, Viale del Risorgimento, 2, 40136 Bologna, Italy

## Deadline for manuscript submissions

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Machines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
machines@mdpi.com

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*Machines* is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

# **Editor-in-Chief**

Prof. Dr. Antonio J. Marques Cardoso

CISE - Electromechatronic Systems Research Centre, University of Beira Interior, Calcada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

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