Special Issue

Lifetime Extension of Industrial Machines

Message from the Guest Editors

This topic interconnects several theoretical and experimental approaches in engineering. Actually, machine retrofitting can involve the upscaling of the whole machine or of some components and therefore regards in particular machine design, structural health monitoring, and fatigue life assessment. Especially in the case of non-stationary operation, lifetime extension of industrial machines can involve the optimization of the control and therefore regards in particular systems design and testing. Furthermore, in general, the economic profitability of machine lifetime extension has to be assessed in a probabilistic scenario accounting for the risk of component damages. On these grounds, the present Special Issue aims to collect contributions devoted to the multi-faceted topic of lifetime extension of industrial machines. Theoretical and experimental contributions are welcome.

Guest Editors

Dr. Francesco Castellani Department of Engineering, The University of Perugia, 06125 Perugia, Italy

Dr. Davide Astolfi Department of Information Engineering, University of Brescia, Via Branze 38, 25123 Brescia, Italy

Deadline for manuscript submissions

closed (30 September 2021)



an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.7



mdpi.com/si/75976

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

mdpi.com/journal/

machines





an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.7



machines



About the Journal

Message from the Editor-in-Chief

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, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).