



an Open Access Journal by MDPI

New Trends in Design

https://www.mdpi.com/journal/applsci/special_issues/Trends_Design

Guest Editors:



Prof. Dr. Francisco Cavas Martínez

Department of Structures,
Construction and Graphical
Expression, Technical
University of Cartagena,
Cartagena, Spain; Researcher
of the National Network for
Clinical Research In
Ophthalmology RETICS-
OFTARED (UMH-ISCI3)

Research Interests:

cornea; ocular imaging;
biomedical engineering;
biomechanical engineering;
computational modeling
and simulation; CAD; CAE;
CAM and FEM; 3D
bioprinting

francisco.cavas@upct.es

Deadline for manuscript
submission:

1 September 2021

Message from the Guest Editors

Dear Colleagues:

In the current and complex mechanical engineering environment, computational modeling and simulation represent vital tools for gaining understanding and optimizing product designs and manufacturing processes at different levels. Today, the huge growth in computational power available for design, modeling, and simulation provides modern computational methods with a significant role in the analysis and optimization of many complex processes and designs, allowing them to be completed in a fast and effective manner, saving costs, time, and reducing waste. Therefore, it becomes essential to stay up to date with the latest trends and developments in the field of Mechanics.

We encourage submissions to this Special Issue which aim at sharing knowledge, experience, and up-to-date scientific information in the areas of design engineering, providing an overview on methodologies, tools, and applications for understanding how the application of emerging technologies impact critical engineering activities, such as product design, manufacturing, management and integration of information along the life cycle of the product/system. This Special Issue shall provide a comprehensive coverage of the experimental, computational, and analytical approaches that are usually employed to implement new products and processes in several different fields (automotive, biomedical, civil, aeronautics, etc.). These approaches also frequently aim to improve current products and processes, basing on new approaches to implement technologies. This Special Issue will not only be useful for researchers in these areas, but also for engineers engaged with advanced design and manufacturing problems.

Prof. Dr. Francisco Cavas Martínez

Guest Editor



[mdpi.com/si/48698](https://www.mdpi.com/si/48698)

Special Issue