Topical Collection

Identification of Bio- and Eco-Materials Using Advanced Computational Methods

Message from the Collection Editors

Tools based on advanced computational methods, i.e. numerical simulations, inverse analysis, artificial intelligence and machine learning are increasingly used to assess quality, and search for trends, recognition and identification of those products. In addition, new, powerful numerical algorithms and metamodels based on deep learning or stochastic processes allow us to quickly and effectively achieve the desired goals. In this Special Issue, we want to collect works related to bio-products and eco-materials, but also biomaterials widely used in orthopedics and more broadly in medicine. The collection of bio- and eco-materials is not limited only to biologically compatible medical implants or modern ecological building materials. They belong to a much wider space, also including all kinds of food, textile and wood or paper products, as well as waste and their use for the production of green energy and much more.

- computational methods
- inverse analysis
- artificial intelligence, artificial neural networks
- Gaussian processes
- eco-materials
- biomaterials
- identification

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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