Special Issue

Numerical Analysis in Medicine and Its Application in Biomaterials

Message from the Guest Editors

Modern numerical analyses are most commonly applied in medicine and related branches. In common practice, we are used to applying Euclidian geometry, but this classical method shows its disadvantages in the case of complicated shapes/patterns analyses. Such patterns are observed in the case of the microstructure of biomaterials, bone, skin, lesions, etc. Euclidian geometry may fail in these cases. Advanced algorithms of image analysis, such as fractal dimension analysis or texture analysis, may be helpful, especially in regard to the correlation of their results with easier measurable mechanical parameters, such as roughness, hardness, and flexibility. Another way to use the aforementioned methods is to implement them in computer-aided diagnosis systems. Please view more details, including the submission entrance ("Submit to Special Issue" option on the left side of the website), via the Special Issue website at:
https://www.mdpi.com/journal/materials/special_issues/numerical_analysis_medicine_biomaterials
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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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