



Call for Papers

Thematic Issue on :

« BIOMECHANICS: FROM THE DESIGN TO PRACTICE »

Topics

With the aid of the new resources and technologies, biomechanical engineering are developing a high degree of innovation and usefulness to the society in areas as dental engineering, medical devices, reliability and failure, medical imaging, modeling and simulation and surgery simulators.

Engineers in this field work in close cooperation with Scientifics combining all the knowledge to obtain the best implant technology using interactive 3D models, computer aided surgery and robots to perform surgeries, simulations of the new medical devices and getting the best image devices for an accurate diagnosis.

This thematic issue focused in biomechanical engineering will provide a forum for discussion and sharing the current state-of-the-art in this scientific field related to biomechanics including but not limited to:

- Imaging and visualization in biomechanics
- Computer aided surgery
- Virtual reality
- New trends of design in biomechanics.
- Development of medical implants and devices.

This thematic issue, following the scope of the “International Journal of Interactive Design and Manufacturing” will explore a variety of techniques, including the description of biomechanical problems in identifying significant knowledge and variables; advanced modeling of design and manufacturing problems; virtual exploration of solution spaces; building of highly realistic, multi-sensorial simulators; and implementation of user-centered, innovative methods.

This thematic issue welcomes contributions involving mechanical engineering knowledge, skills and principles to the conception, design, simulation and development of biomechanical systems.

Reviewing process:

Authors should submit their paper via <https://www.editorialmanager.com/ijdm/>

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Refereeing and the selection of papers will be carried out according to the standards of Springer’s publications.

Online Submission

Manuscripts should conform to the standard format of the International Journal on Interactive Design and Manufacturing as indicated in the official web sites. Electronic submissions must be in Word or Pdf format and should be prepared according to the journal guidelines. The submissions should be performed through the journal automatic system: <https://www.editorialmanager.com/ijdm/>. A copy of all submitted articles are sent by email to the guest editors (see contact information above).

Important Dates

Manuscript Submission:	March 2013
Notification of Acceptance:	May 2013
Final Decision:	June

Guest Editors: M Luisa Mtz. Muneta and Gregorio Romero

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