# Computer Methods in Biomechanics and Biomedical Engineering

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**Présentation de la revue**
**Original language :**

The primary aim of *Computer Methods in Biomechanics and Biomedical Engineering (CMBBE)* is to provide a means of communicating the advances being made in the area of computational biomechanics and biomedical engineering with the emphasis being placed on biomechanics.The papers will focus on state-of-the-art computational aspects of biomechanics and simulation in both engineering and clinical scenarios. Accepted submissions will be of high scientific value in providing a significant contribution and impact on computational biomechanics. They should also expand upon novel and innovative research where the methods, analysis and conclusions are robust and of the highest standard.

CMBBE also encourages rapid innovative communications of 1,500 words. These would feature novel and innovative approaches within the field of computational biomechanics providing the journal with a forum of cutting edge content which will significantly impact the area. We aim to review such submissions within a shorter time frame than full research articles.

Topics covered include the computational aspects of:

1. Mechanics of biological tissue, organ systems and biomaterials
2. Material identification and inverse problems
3. Human body movement, motion analysis and impact
4. Cell mechanics, mechanotransduction, and computational mechanobiology
5. Computer assisted surgery and simulation
6. Biofluids and hemodynamics
7. Modelling, design and assessment of medical devices and implants
8. Application of imaging in biomechanics
9. Joint and ligament mechanics
10. Multiscale and multiphysics modelling

**Topics :**
Human health
Sciences and techniques: multidisciplinary
Modelling
Mathematics, computer science
Physics, chemistry

**Open access :** Author-paid optional open access

**Languages :** English

**Journal reputation :**
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Peer-reviewed with Impact Factor (IF)

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**Données de la recherche**
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**Data repositories recommended by the journal :** <https://authorservices.taylorandfrancis.com/data-sharing/share-your-data/repositories/>

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