CMBBE2019

16th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering and 4th Conference on Imaging and Visualization

14 – 16 August 2019

New York City, United States

Conference venue: Columbia University

www.cmbbe2019.com

Conference Chair: Christopher R. Jacobs (in memoriam)
Program Chair: Gerard A. Ateshian
Co-Chair (Imaging & Visualization): João Manuel R.S. Tavares
Local Arrangements Chair: Kristin M. Myers

IMPORTANT DATES

Abstract submission deadline: 15 February 2019
Review notification deadline: 15 March 2019
Early registration deadline: 15 April 2019

COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK

CMBBE 2019 main topics:

- Bacterial and viral mechanics
- Biomechanics of morphogenesis
- Biomechanics of movement and rehabilitation bioengineering
- Bone biomechanics
- Brain biomechanics
- Cardiac mechanics
- Cardiovascular fluid dynamics
- Cellular and molecular biomechanics
- Dental biomechanics
- Diarthrodial joint biomechanics
- Musculoskeletal dynamics and neuromuscular control
- Reproductive biomechanics
- Respiratory biomechanics
- Skin biomechanics
- Spine biomechanics
- Vascular mechanics

- Biomedical image analysis & processing
- Biomedical visualization
- Computer-aided surgery
- Imaging for model validation
- Human modeling for robotics

- 3D printing in biomedicine
- Biomaterials
- Ergonomics
- Fluid biomechanics
- Growth and remodeling
- Hard tissue mechanics, damage, remodeling
- Implants/orthotics/prosthetics/devices/biologics
- In vivo imaging and visualization
- Injury biomechanics and crash analysis
- Inverse problems and parameter identification in tissue mechanics
- Mechanics in infectious diseases
- Mechanobiology
- Patient-specific modeling
- Plant biomechanics
- Soft tissue mechanics, damage, remodeling
- Sports biomechanics
- Tissue engineering

- Agent-based modeling
- Contact mechanics
- Finite element and finite volume method
- Fluid-structure interaction
- Machine learning
- Meshless methods
- Multiscale modeling
- Multiphysics modeling

Conference secretariat:

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