



CALL FOR PAPERS

ICOEB 2020
Feb 13-14, 2020
Dubai, UAE

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICOEB 2020 : International Conference on Optical Elastography and Biomechanics is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Optical Elastography and Biomechanics. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Optical elastography methods in general
Optical coherence tomography/elastography
Speckle and particle tracking, and holography
Signal processing methods for optical elastography
Quantitative methods, including combining modeling and measurement
Novel loading schemes, such as focused ultrasound, photothermal and magnetomotive
Methods for measuring viscoelastic properties in particular
Photoacoustics directed towards biomechanics
Brillouin scattering for biomechanics
Optical tweezers applied to cellular and subcellular mechanical properties
Scanning probe and other nanoscale methods for biomechanics
Dynamic methods for characterizing tissue vibration, such as in the ear and vocal chords
Optical elastography applications in general

In vivo elastography
Elastography applied to characterization of ex vivo and in vivo tissue pathology
Intraoperative elastography applications
Elastography in cardiology
Biomechanics of the eye
Ophthalmic applications of optical elastography
Hard tissue biomechanics in bones and dental applications
Biomechanics in animal models
Biomechanics in tissue engineering
Biomechanics in developmental biology
Microrheology measurements using optical techniques
Traction force microscopy and related methods
Cell mechanics methods

