



UNIVERSITA' CAMPUS BIO-MEDICO DI ROMA

Facoltà Dipartimentale di Ingegneria Biomedica

Biomechanicist by Chance: an Adventure in Continuum Biomechanics

PhD, PEng, Professor of Engineering Salvatore Federico

Dept Mechanical and Manufacturing Engineering
The University of Calgary
2500 University Drive NW
Calgary, Alberta, T2N 1N4, Canada

ABSTRACT:

Continuum Mechanics is the study of matter at a length-scale at which the existence of the atomic structure can be neglected, and matter can be treated as continuous rather than discrete. Research in our group is devoted to the mathematical foundations of Continuum Mechanics and its applications to the Biomechanics of Soft Tissue. In particular, we are interested in modelling soft tissue accounting for its structural elements, i.e., collagen fibres, cells, non-fibrous extracellular matrix and fluid. Most phenomena of structural rearrangement in a biological tissue can be described under the umbrella of growth and remodelling. Structural damage is what can initiate injury and disease. This presentation will briefly describe the group's work in Biomechanics in the past 15 or so years.

Venerdì 14 giugno 2019 - ore 12:00

Aula T7 - Trapezio

Università Campus Bio-Medico di Roma

Via Álvaro del Portillo, 21

Info: Alessio Gizzi - a.gizzi@unicampus.it

Seminari