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Multiscale modeling in computational biomechanics

Multiscale Modeling. Multiscale modeling has existed for many years in basic science and engineering areas such as mathematics, material science, chemistry, and fluid

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Biomechanics is broadly defined as the scientific discipline that investigates the effects of forces acting on and within biological structures.

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1. Biomech Model Mechanobiol. 2010 Aug;9(4):373-87. doi: 10.1007/s10237-009-0181-2. Epub 2010 Jan 12. On the multiscale modeling of heart valve biomechanics in health

Robotics, biomechanics, and dynamic systems

Multiscale Modeling and Simulation Ashley Chase Guy: There are many systems that involve dynamic behavior occurring at different time scales, or involve fast and slow

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Session Organiser: Junuthula N. Reddy, Franco Maceri Session Scope: In the field of human organ and tissue diseases, reliable, predictive, patient-specific

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