

Computational Hemodynamics Theory Modelling And Applications Biological And Medical Physics Biomedical Engineering

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It provides a firm grounding in hemodynamics and describes computational models for study of the cerebral circulation. Extracranial applications in assessing the carotid and vertebral arteries are ...

Theory, Practice and Future Developments

Here he investigated the theory behind flow-induced oscillations in elastic ... It is firmly rooted in engineering and mathematics in the context of computational fluid mechanics, including ...

Dr Alberto Marzo

Although extensive research has focused on single-tissue or single-organ scale computational modeling ... have been used to model hemodynamics and pulmonary delivery problems and some biomechanics or ...

Using Simulation to Improve Drug-Delivery Devices

Emphasis will be placed on modeling the fiber-level tissue damage induced by cyclic hemodynamic loading and its long-term progression. Specifically, the computational domain ... by the nonlocal ...

CAREER: A Local-Nonlocal Coupling Framework for Tissue Damage in Fluid-Structure Interaction

Smart machines should be able to navigate through noisy and unpredictable environments, thus robust control is needed to handle uncertainty in the mechanical and electrical models and in the ...

Arie Nakhmani

Artificial neural networks (ANN), radial basis function networks (RBFN), wavelet neural networks and multiresolution wavelet models, computational statistics ... The thalamic clock and the cortical ...

Dr Hua-Liang Wei

Simultaneous EEG - functional Magnetic Resonance Imaging fMRI acquisitions to measure, within the whole brain at a second scale, hemodynamic responses that ... a simulation study. Journal of ...

Christophe Grova, PhD

Her research interests encompass work across the fields of applied mathematics, control systems theory, and data analysis ... and control techniques and computational tools that rely on mathematical ...

Dr Zehor Belkhatir

Maternal iron-deficiency is associated with premature birth and higher birth weight despite routine antenatal iron supplementation in an urban South African setting: The NuPED prospective study. A ...

PloS one

Rutgers University-Newark Psychology Department Rumba Speaker Series on Modeling and Theory in Neuroimaging ... 4 p.m. Institute for Computational Science and Engineering colloquium. "New Developments ...

March 2004 Cognitive Science Events in Princeton

Impact of Size and Shape of Equine Femoral Subchondral Bone Cysts with a Transcondylar Screw On Predicted Bone Formation Area in a Finite Element Model.

Journal of biomechanical engineering

This Research Training Group (RTG) grant will train undergraduate students, graduate students and postdoctoral researchers, in statistical and inverse problem methodologies applied to mathematical ...

RTG: Parameter Estimation Methodologies for Mechanistic Biological Models

Zapol Prof. of Anaesthesia Harvard Medical School, Prof. of Computational Neuroscience MIT, Director, Neuroscience Statistics Research Laboratory, Anesthetist, Massachusetts General ...

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