

2nd International Conference on Nonlinear Solid Mechanics

ICoNSoM 2022

Mini-Symposium: **MS-14 Non-Linear Biomechanics in the Cardiovascular System – Modelling and Experimental Technologies**

Alghero, Sardinia, Italy, from 13 to 16 June, 2022

In context of the 2nd International Conference on Nonlinear Solid Mechanics, ICoNSoM 2022 that will take place at Alghero School of Architecture, Sardinia, Italy, from 13 to 16 June, 2022, we invite you to share your work and research at the Mini-Symposium MS-14 Non-Linear Biomechanics in the Cardiovascular System – Modelling and Experimental Technologies.

The Symposium puts a special attention on the development and application of biomechanical constitutive equations to study soft tissues and bio-fluids. Theoretical, numerical and experimental contributions at the cellular, tissue and organ levels.

We encourage submissions on the development and application of soft tissue and biofluids models including:

- Constitutive modeling
- Contact mechanics
- Rate dependent phenomena
- Multiscale modeling
- Fracture mechanics
- Impact and fracture
- Blood rheology
- Heterogeneous mechanics
- Fatigue analysis
- Hemodynamic modeling
- Visco-elasto-plastic solids
- Mechano transduction
- & experiments
- The porous solids
- Friction and tribology

The Symposium also has an interest in the clinical aspects of these models and their potential translation to diagnostic, prognostic and therapeutic intervention and technologies. In particular for the development of predictive models for the evolution of a disease and the evaluation of the bioperformance of prostheses in interaction with surrounding tissue.

We sincerely hope that you will join us in Alghero to make this event a success. We look forward to welcoming you at ICoNSoM 2022!

Please make your submission through the ICoNSoM 2022 web site ([Abstract submission \(memocsevents.eu\)](https://www.memocsevents.eu)). Please indicate that it is for Mini-Symposium “MS-14 Non-Linear Biomechanics in the Cardiovascular System – Modelling and Experimental Technologies” and send an additional copy to the email addresses below.

Organizing Committee:

Prof. Sonia Pinto, Universidade do Porto, Portugal (spinto@fe.up.pt)
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DEADLINE FOR ABSTRACT SUBMISSION: APRIL 5th 2022