

# ICoNSoM 2022

International Conference on Nonlinear Solid Mechanics  
13-16 June 2022, Alghero, Sardinia, Italy



## Minisymposium

### **MS Structural and finite element modeling for large deflection, post-buckling, and failure analysis of composite laminates**

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This session aims at gathering the most recent progress on the development of modeling strategies of composites. We encourage to submit abstracts sharing the latest research and results on analytical and numerical methodologies, along with related experimental work. Advances may include but are not limited to

- Development of refined structural theories and improve the computational efficiency
- Models for micromechanics and multiscale
- Methodologies to trigger innovative designs and favor the best choice of architecture vs. manufacturing methods
- Virtual characterization and the evaluation of allowables, variability, effects of manufacturing, and prediction of aging and fatigue life
- Damage tolerance and virtual certification
- Simulation of processes and the evaluation of the effects of imperfection in in-service performances
- Applications to novel composite solutions, such as thermoplastics, variable angle tows, and 3D woven composites
- Data-driven analyses and deep learning

Abstracts should be submitted by following the instructions on the website of the conference:  
<http://www.memocsevents.eu/iconsom2022/abstract-submission/>