

**Minisymposium proposal for:**  
- 6th European Conference on Computational Mechanics  
(Solids, Structures and Coupled Problems) (ECCM 6)

**ECCM-2018**

<http://www.eccm-ecfd2018.org>

organised by

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Title: Non-conventional methods for solid mechanics (NMSM)

The Minisymposium focuses on non-conventional techniques for solid mechanics, including experimental, theoretical and computational aspects. The attention is focused on heterogeneous/multiscale/multiphase/multifunctional materials, and their behaviour especially in the framework of coupled field problems.

Topics:

- Non-conventional theoretical techniques for description of heterogeneous/multiscale/multiphase/multifunctional materials:
  - fractional continuum mechanics,
  - tolerance and non-asymptotic modelling,
  - peridynamics,
  - fractal media,
  - nonlocal continuum,
  - relativistic continuum mechanics, etc.
- Non-conventional techniques for solving coupled field problems for heterogeneous/multiscale/multiphase/multifunctional materials (computational aspects including implementation and hardware/software point of views).
- New set-ups for experimental testing of heterogeneous/multiscale/multiphase/multifunctional materials (miniaturised equipment, digital imaging, etc.)