

WCCM8 – ECCOMAS 2008 Mini-symposium on:

Multiscale Damage and Failure Mechanics of Engineering Materials

8th World Congress on Computational Mechanics
5th European Congress on Computational Methods in
Applied Sciences and Engineering

Lido Island, Venice, Italy

30 June – 5 July 2008

<http://www.iacm-eccomascongress2008.org/>

Multiscale modeling and characterization has been recognized as one of the fundamental tools to study the local damage and failure behavior of heterogeneous structures at the microscale and overall constitutive relations of engineering materials. This minisymposium aims to provide a forum to discuss recent advances and address the future prospects in the area of multiscale modeling/characterization of damage and failure mechanics of engineering materials. Interested researchers are invited to submit short abstracts on topics which include, but are not limited to:

- Microstructural damage/failure characterization of heterogeneous materials;
- Micromechanical damage analysis of materials;
- Multiscale constitutive relations with damage parameters;
- Microstructure – property relations of advanced materials and composites;
- Nanomechanical characterization, analysis and modeling of damage and fracture mechanics;
- Experimental characterization and validation of damage and failure mechanics.

Selected papers will be invited for expedited publication in a special issue of the **International Journal of Damage Mechanics**.

Mini-symposium Organizers:

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