



ECCOMAS Thematic Conference

CMCS 2017 is one of the Thematic Conferences of the European Community in Computational Methods in Applied Sciences (ECCOMAS). For further information on ECCOMAS visit the website www.eccomas.org

Conference venue

The conference will be held at the Espace Saint Martin, in the super-center of Paris, just 5 min walk from the recently renovated Les Halles center, 10 min walk from the Louvre museum and 15 min from the Notre-Dame cathedral.
Web: <http://www.espacesaintmartin.com/en/contact>

Registration Fees

The registration fees below apply with a reduction if received before September 30th, 2017 (early registration):

	Early	Late
Full delegate registration (including congress banquet)	450 €	550 €
Reduced delegate registration (not including congress banquet)	400 €	500 €
Full student registration (including congress banquet)	350 €	450 €
Reduced student registration (not including congress banquet)	300 €	400 €

Registration fees include: conference proceedings, attendance at all scientific sessions, lunches, coffee breaks, reception and (optionally) banquet (extra 50 € charge).

Contact Information

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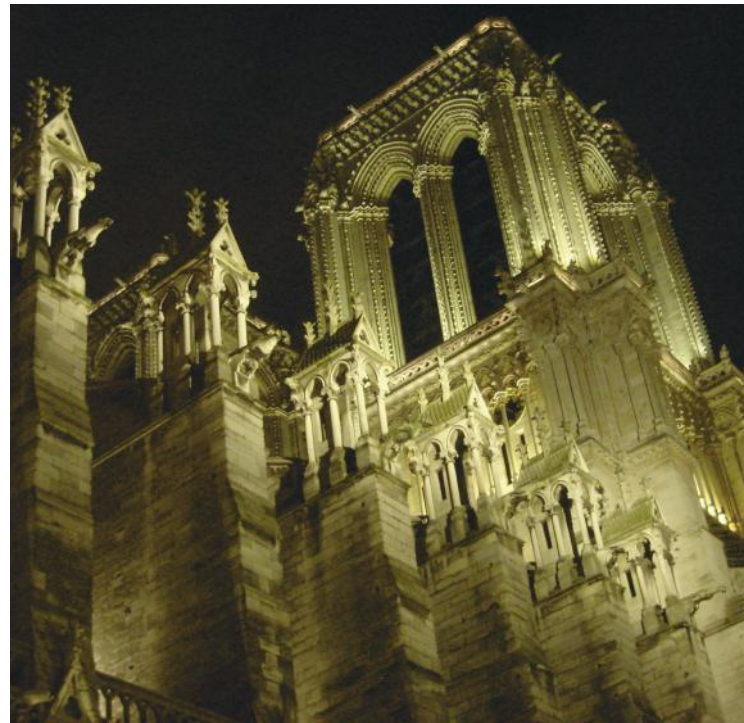


CMCS 2017

Computational Modeling of Complex Materials Across the Scales

November 7-9, 2017, Paris, France

<https://cmcs2017.sciencesconf.org>



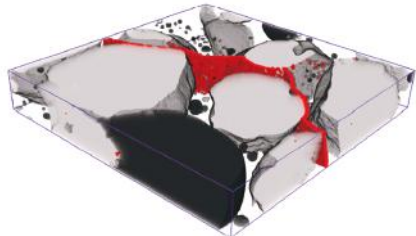
cmcs2017@univ-paris-est.fr



Objectives

The ECCOMAS Thematic conference “Computational Modeling of Complex Materials Across the Scales (CMCS)” will be held in Paris, from 7th to 9th of November, 2017. The objectives of the international CMCS 2017 conference are to present recent state-of-the-art developments in multiscale modeling of complex materials with computational approaches. This thematic conference focuses on one hand on the modeling of complex (i.e. multiphysics, realistic microstructures) microstructural phenomena and on the other hand on the upscaling of these phenomena at coarse (engineering) scales to determine their effective or emergent behavior. The goal is to gather scientists from different disciplines working on scale bridging problems in materials and structures to make a step forward in the development of these approaches and to target integration in future engineering tools. The scope includes:

- Heterogeneous solids and structures
- Multi-scale modeling methodologies
- Computational micromechanics
- Structure-property relations



Conference Topics

The topics addressed in this colloquium will include:

- Space/time computational homogenization
- Simulation of complex (multiphysics, multi-field) phenomena at the microscale
- Non-separated scale problems and generalized continua
- Microcracking simulation, advanced algorithms for complex microstructures e.g. arising from experimental images
- Advanced methodologies combining experiments and numerical simulations for microscale phenomena and their upscaled behavior
- Efficient computational methodologies to reduce computational times in multiscale analyses

Conference Chairmen

- **Julien Yvonnet**, *Université Paris-Est, France*
- **Marc Geers**, *Eindhoven University of Technology, The Netherlands*
- **Paul Steinmann**, *University of Erlangen-Nuremberg, Germany*

Plenary Speakers

- **William Curtin**, *Ecole Polytechnique Fédérale de Lausanne, Switzerland*
- **Samuel Forest**, *Mines ParisTech, France*
- **Michael Ortiz**, *California Institute of Technology, USA*
- **Kenjiro Terada**, *Tohoku University, Japan*



International Scientific Committee

- R. de Borst, *UK*
- W. Curtin, *Switzerland*
- J. Fish, *USA*
- S. Forest, *France*
- W.K. Liu, *USA*
- J. Llorca, *Spain*
- D. McDowell, *USA*
- K. Matous, *USA*
- J.F. Molinari, *Switzerland*
- M. Ortiz, *USA*
- P. Ponte-Castañeda, *USA*
- E. Rank, *Germany*
- K. Runesson, *Sweden*
- K. Sab, *France*
- P. Suquet, *France*
- K. Terada, *Japan*
- P. Wriggers, *Germany*
- T. Zohdi, *USA*

Instruction for Authors

Prospective authors are invited to submit a one page abstract by May 15th, 2017 using the online system of the conference website <https://cmcs2017.sciencesconf.org>

Important Dates

One page abstract deadline	May 15, 2017
Notification of acceptance	June 30, 2017
Early registration deadline	September 30, 2017