

Collège Doctoral Franco-Allemand / Deutsch-Französischen Doktorandenkollegs
CMM-MINES ParisTech – Univ. Kaiserslautern / Fraunhofer ITWM
“**Traitement d’image mathématique / Mathematische Bildverarbeitung**”

Workshop October 7-8 2015
MINES ParisTech ; 35, rue Saint-Honoré; Fontainebleau
Building P, Room 3.01

Scientific Program (only the author presenting the work is mentioned)

Wednesday October 7th

From 11:30 Welcome in Workshop Room (P – 3.01)

12:00 – 13:00 Lunch (cafeteria in the campus)

Session I

13:00 **Bruno Figliuzzi**. Modelling the microstructure of carbon black filled rubber materials from 3D simulations

13:30 **Dascha Dobrovolskij**. Modelling of Ultrasonic Scattering Phenomena due to Polycrystalline Microstructure

14:00 **Dennis Merkert**. FFT-based homogenization of elasticity using composite voxels and accurate local fields

14:30 **Enguerrand Couka**. Modelling the microstructure of a hematite coating and estimation of its optical response

15:00 – 15:30 Coffee Break

Session II

15:30 **Jan Niedermeyer**. Fibre length estimation using fibre endpoints

16:00 **Prakash Easwaran**. Extension of the Altendorf-Jeulin fiber system model to incorporate fiber bundles

16:30 **Bassam Abdallah**. The Permeability of Boolean models

19:30 Dinner at the restaurant “Chez Bernard” (in 3 rue Royale, Fontainebleau)
<http://www.restaurant-chateau-fontainebleau.fr/>

Thursday October 8th

Session III

9:00 **Jean-Charles Bricola.** A multi-scale and morphological gradient perserving contrast

9:30 **Johannes Persch.** Restoration of manifold-valued images by half-quadratic minimization

10:00 **François Willot.** The length of geodesics in random sets with dilute concentration of particles

10:30 – 11:00 Coffee Break

Session IV

11:00 **Markus Doktor.** Gibbs Tessellations and the Takacs-Fiksel Technique

11:30 **Petr Dokladal.** Geometry Analysis of Superconducting Cables for Optimization of their Global Performances

12:00 **Katharina Losch.** Stereology for SEM images of a Metal-Matrix-Composite

12:30 **Théodore Chabardès.** Automatic segmentation of granular materials.

13:00 – 14:00 Lunch (cafeteria in the campus)