

**First meeting of the
French-German-Italian LIA
COPDESC on Applied
Analysis**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome and Opening

Monday, December 4, 2017 8:45 AM (15 minutes)

Contribution ID: 1

Type: **not specified**

Exact boundary controllability of networks of quasi-linear strings and springs coupled with point-masses

Monday, December 4, 2017 9:00 AM (45 minutes)

Plenary talk

Presenter: LEUGERING, Günter (Universität Erlangen-Nürnberg)

Contribution ID: 3

Type: **not specified**

A decomposition of vector fields in \mathbb{R}^{d+1}

Monday, December 4, 2017 4:00 PM (45 minutes)

Plenary talk

Presenter: BIANCHINI, Stefano (SISSA, Trieste)

Track Classification: Nonlinear PDEs

Contribution ID: 4

Type: **not specified**

Adaptivity in High-Order Numerical Methods for PDEs

Monday, December 4, 2017 4:45 PM (45 minutes)

Plenary talk

Presenter: CANUTO, Claudio (Politecnico di Torino)

Track Classification: Scientific computing and Numerical analysis

Contribution ID: 5

Type: **not specified**

Diffuse interface models of tumor growth: optimal control and other issues

Tuesday, December 5, 2017 9:00 AM (45 minutes)

Plenary talk

Presenter: ROCCA, Elisabetta (Università di Pavia)

Contribution ID: 6

Type: **not specified**

Adjoint-based optimization of a complete design chain in CFD

Tuesday, December 5, 2017 9:45 AM (45 minutes)

Plenary talk

Presenter: WALTHER, Andrea (Universität Paderborn)

Track Classification: Scientific computing and Numerical analysis

Contribution ID: 7

Type: **not specified**

Polynomial-degree-robust liftings in H^1 and $H(\text{div})$

Tuesday, December 5, 2017 4:00 PM (45 minutes)

Plenary talk

Presenter: ERN, Alexandre (ENPC and INRIA, Paris)

Contribution ID: 8

Type: **not specified**

Description of waves in discrete and in heterogeneous media with dispersive effective equations

Tuesday, December 5, 2017 4:45 PM (45 minutes)

Plenary talk

Presenter: SCHWEIZER, Ben (T.U. Dortmund)

Track Classification: Nonlinear PDEs

Contribution ID: 9

Type: **not specified**

Data driven problems in elasticity

Wednesday, December 6, 2017 9:00 AM (45 minutes)

Plenary talk

Presenter: MÜLLER, Stefan (Universität Bonn)

Track Classification: Calculus of variations

Contribution ID: **10**

Type: **not specified**

Convex relaxation for a class of free boundary problems

Wednesday, December 6, 2017 9:45 AM (45 minutes)

Plenary talk

Presenter: BOUCHITTÉ, Guy (Université de Toulon)

Track Classification: Calculus of variations

Contribution ID: 11

Type: **not specified**

Optimal shape and location of sensors or actuators in PDE models

Wednesday, December 6, 2017 11:00 AM (45 minutes)

Plenary talk

Presenter: TRÉLAT, Emmanuel (Université Pierre et Marie Curie, Paris)

Contribution ID: 12

Type: **not specified**

Gamma-convergence and stochastic homogenisation of free-discontinuity functionals

Wednesday, December 6, 2017 11:45 AM (45 minutes)

Plenary talk

Presenter: DAL MASO, Gianni (SISSA Trieste)

Track Classification: Calculus of variations

Contribution ID: 13

Type: **not specified**

Recent progress on Hamilton-Jacobi Equations and Deterministic Control Problems with Discontinuities

Monday, December 4, 2017 9:45 AM (45 minutes)

Plenary talk

Presenter: BARLES, Guy (Université de Tours)

Track Classification: Nonlinear PDEs