

April, 24  
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2015



## II Workshop on COMPUTATIONAL DATA ANALYSIS AND NUMERICAL METHODS

Universidade de Évora  
Évora, Portugal  
Departamento de Matemática  
Colégio Luís António Verney

### INVITED SPEAKERS

10:00 – Ice break

**Luís Grilo & Carlos Coelho** – Instituto Politécnico de Tomar & CMA/FCT - UNL

10:30 - *A family of near-exact distributions for the statistic used to test the reality of covariance matrix in a complex normal distribution*

**Rui Alberto & Carlos Coelho** – CMA/FCT - UNL

11:00 - *A new approximation to the product distribution of beta independent and identically distributed random variables*

**Ana Nata, Natália Bebiano & João P. da Providência** – Instituto Politécnico de Tomar & CMUC

11:30 - *A robust numerical method for approach the field of values boundary of finite dimensional Hilbert space operators*

**Carla Silva & António Heitor Reis** – Instituto Politécnico de Tomar & CGE – Instituto de Ciências da Terra

12:00 - *Modeling pulsatile fluid flow through electrical analogues*

12:30 – Lunch

**Carla Santos, Célia Nunes & João Tiago Mexia** – Instituto Politécnico de Beja & CMA/FCT - UNL

14:30 - *Linear mixed models, OBS and COBS*

**Clara Carlota & António Ornelas** – Universidade de Évora & CIMA-UE

15:00 - *Sufficient conditions for existence of scalar minimizers of non-convex single integrals*

**Sílvia Chá & Clara Carlota** – Universidade de Évora & CIMA-UE

15:30 - *Existence of solution for an economic non-convex optimal control problem*

**Fernando Carapau & Paulo Correia** – Universidade de Évora & CIMA-UE

16:00 - *One-dimensional model of fluids of third grade in straight tubes*

**Room: Amphitheatre 1 - CLAV // Free admission**

### SCIENTIFIC COMMITTEE

**Ana Nata** - Instituto Politécnico de Tomar

**Carla Santos** - Instituto Politécnico de Beja

**Carla Silva** - Instituto Politécnico de Tomar

**Clara Carlota** - Universidade de Évora

**Fernando Carapau** - Universidade de Évora

**Luís Grilo** - Instituto Politécnico de Tomar

**Paulo Correia** - Universidade de Évora

### ORGANIZING COMMITTEE

**Luís Grilo (Chair)** - Instituto Politécnico de Tomar

**Fernando Carapau (Local Chair)** – Universidade de Évora

**Paulo Correia** – Universidade de Évora

**Ana Nata** - Instituto Politécnico de Tomar

