

Program of CIMA2025AZORES

Friday, June 28th, 2025

09h00-09h30: Reception and registration of participants

9h30-10h00: Opening of the Meeting

Session 1 (Chair: João Cabral)

10h00-11h00: *International Invited Speaker* – Martin Grothaus

An improved characterization theorem - interpretation in Malliavin calculus - applications to SPDEs

Martin Grothaus, José Luís da Silva, Jan Muller, Andreas Nonnenmacher and Henry P. Suryawan

11h00-11h30: Coffee break

11h30-12h00: Feliz Minhós

Third-order functional problems: existence, non-existence and multiplicity results.

Feliz Minhós and Nuno Oliveira

12h00-12h30: Nuno Sá

A New Perturbative Method for Systems of Algebraic Equations.

Nuno Barros e Sá

12h30-14h00: Lunch Time

Session 2 (Chair: Feliz Minhós)
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14h00-15h00: *International Invited Speaker* – Alberto Cabada

Discrete System of a Relativistic Operator coupled to Dirichlet Boundary Conditions

Alberto Cabada

15h00-15h30: Michael Grinfeld

Admissibility criteria and wild solutions in gas dynamics.

Michael Grinfeld, H. Gimperlein, R. J. Knops and M. Slemrod

15h30-16h00: Joaquim M. C. Correia

The Riemann problem for a model in elastoplasticity with hysteresis.

Joaquim M. C. Correia

16h00-16h30: Coffee-Break

Session 3 (Chair: Jerónimo Nunes)
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16h30-17h00: Diogo Baptista

*Complexity Along Isentropic Curves in the Lozi Map: A
Secondary Invariant Approach.*

Diogo Baptista and Alexandra Nascimento

17h00-17h30: Maurício Reis

On the adaptation of the AGM model to belief bases.

Maurício Reis and Marco Garapa

17h30-18h00: Marco Garapa

Non-prioritized belief revision.

Marco Garapa and Maurício Reis

Saturday, June 29th, 2025

Session 4 (Chair: Áurea Sousa)

09h00-09h30: Carlos A. Braumann

Consequences of parameter estimation errors when harvesting in random environments.

Carlos A. Braumann and Nuno M. Brites

09h30-10h00: Russell Alpizar-Jara

Inverse Moments of Discrete Random Variables.

Russell Alpizar-Jara

10h00-10h30: José Luís da Silva

Green Measures for a Class of Non-Markov Processes.

José Luís da Silva and Henry P. Suryawan

10h30-11h00: Coffee-Break

Session 5 (Chair: José Luís da Silva)
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11h00-11h30: João M. G. Cabral

A Virus Evolution Fuzzy Model.

João M. G. Cabral

11h30-12h00: **(Online)** Luís M. Grilo

Evaluating Estimators in Structural Equation Modeling Using Ordinal Data.

Luís M. Grilo and Guaner Rojas

12h00-12h30: **(Online)** José A. Rodrigues

Dirichlet-Neumann Domain Decomposition For Physics-Informed Neural Networks: A Hybrid Meshless Solver For Pdes.

José A. Rodrigues

12h30-13h00: **(Online)** Clara Carlota

On existence of bang-bang solutions for pointwise state-constrained linear first-order control BVPs using two controls in the plane.

Clara Carlota, Mário Lopes and António Ornelas

13h00-13h30: Closing of the meeting