

# 17<sup>th</sup> ANNUAL WORKSHOP

## Functional Analysis & Applications Group

devoted to the 65th birthday of Professor Vasile Staicu

**April 1, 2026, 9h00 | Room Sousa Pinto, DMat - UA**

09:00	Alexandre Almeida	Nonstandard Inequalities and Applications
	Hermenegildo Oliveira	Averaged Turbulence Models for Permeable Media: Derivation and Existence Theory
	Vasile Staicu	Optimally Controlled Moving Sets
	Luís Castro	A New Stability Concept: Aggregated Multi-Stability
	Eugénio Rocha	Existence and Boundedness of Weak Solutions to Some Vectorial Dirichlet Problems
10:45		<u>COFFE BREAK</u>
11:15	Paulo Varandas	Local Iterated Function Systems: Basics and Problems
	Alberto Simões	A New Perspective on Ulam-Hyers Stability via Gronwall's Lemma
	Diogo Costa	Unifying Framework for Impurity: Parametric Entropy and its Applications
	Joana Martins	Belief Propagation for Early Sequential Feature Selection
	Manuela Rodrigues	Hilfer-type Synchronization in Fractional Neural Networks
13:00		<u>LUNCH</u>
14:30	Rita Guerra	Uncertainty Principles for the Multidimensional Quadratic-Phase Fourier Transform
	Ângela Brochado	IoT-Driven Performance Assessment and Real-Time Scheduling in Synchromodal Logistics
	Anabela Silva	Analysis of a Fractional Differential Equation with Delay
	António Caetano	Fractal Dimensions and Function Spaces on Domains
	Ali Raza	Numerical Analysis of a Non-Linear Stochastic Epidemic Model
16:15		<u>FINAL DISCUSSION AND COFFEE BREAK</u>



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