Trends in Mathematical And Data Sciences June 16 to 20,2025

Day, 16 - Monday		
TIME	**Speakers**	**Title**
11:40-12:20 UTC-3	**ABERTURA** Juan Limaco (C.Committee) Javier Ribon(PGMAT-UFF) Ana Maria Farias(IME-UFF) Monica Savedra (PROPPI-UFF) Enrique Zuazua(C.Committee)	
12:20-14:30 UTC-3	LUNCH	
14:30-15:10 UTC-3	Liliane Basso Barichello-UFRGS	Concise and Accurate Discrete Ordinates Solutions of the Neutral Particle Transport Equation
15:10-15:50 UTC-3	Alexandre Madureira-LNCC	Numerical Methods for High Contrast PDEs
15:50-16:30 UTC-3	Paulo Amorim -FGV	Predator-prey and epidemiological models using transport equations

Day, 17 - Tuesday		
Time	**Speakers**	**Title**
8:30-9:10 UTC-3	Nuno Crokidakis -UFF	From smoke to simulations: Understanding the papal conclave dynamics through agent-based models
9:10-9:50 UTC-3	Liviu Ignat-FAU	Approximations of the best constants
9:50-10:30 UTC-3	Sergey Sergeev -UFRJ	The homogenization procedure for the localized waves propagation
10:30-11:00 UTC-3	Coffe-Break	
11:00-11:40 UTC-3	Maria Soledad Aronna-FGV	Optimal Control of under Parametric Uncertainty
11:40-12:20 UTC-3	Round Table	
12:20-14:30 UTC-3	LUNCH	
14:30-15:10 UTC-3	Lorenzo Liverani -FAU	Stability hyperbolic systems with non-symmetric relaxation
15:10-15:50 UTC-3	Sergey Tikhomirov -PUC-RIO	Various methods to estimate mixing zone in miscible displacement in porous media
15:50-16:30 UTC-3	Felipe Linares-IMPA	On special properties of solutions to Camassa-Holm equation and related models

Day, 18 - Wednesday

TIME	Speakers	Title
8:30-9:10 UTC-3	Jose Cuminato-USP	
9:10-9:50 UTC-3	Tiago Roux Oliveira -UERJ	Extremum Seeking Boundary Control for PDEs: From Wave Dynamics with Kelvin-Voigt Damping to the Stefan Problem
9:50-10:30 UTC-3	Marcio Murad -LNCC	An innovative sequential scheme for solving multiphase flow in deformable porous media
10:30-11:00 UTC-3	Coffe Break	
11:00-11:40 UTC-3	Pablo Blanco -LNCC	Towards real-life computational hemodynamics
11:40-12:20 UTC-3	Round Table	
12:20-14:30	LUNCH	
14:30-15:10 UTC-3	Yuri Saporito-FGV	
15:10-15:50 UTC-3	Amaury Alvarez Cruz-UFRJ	"Generalized Solutions for Nonlinear Wave Interactions in Geochemical Models: A Colombeau Algebra Approach"
15:50-16:30 UTC-3		

Day, 19 - Thursday

TIME	Speakers	Title
8:30-9:10 UTC-3	José Rodríguez Ayllón-UFF	Efficient representation of spatio-temporal data using cylindrical shearlets
9:10-9:50 UTC-3	Jaqueline Godoy Mesquita-UNB	Volterra-Stieltjes functional integral equations and applications
9:50-10:30 UTC-3	Daniel Alfaro-UFRJ	Nonlocal Aggregation-Diffusion Equations: fast diffusion and partial concentration
10:30-11:00 UTC-3	Coffe-Break	
11:00-11:40 UTC-3	Poster Session 01	
11:40-12:20 UTC-3	Poster sesión 02	
12:20-14:30	LUNCH	
14:00-14:40 UTC-3	Boyan Sirakov PUC-RIO	Initia Elliptic regularity estimates with optimized constants and applications
14:50-15:30 UTC-3	Wladimir Neves-UFRJ	Stability of planar rarefaction waves in the vanishing
15:40-16:20 UTC-3		