

22 October	23 October	24 October
8:45-9:00 Opening		
9:00-9:50 S. McKee Non local diffusion, a Mittag-Leffler function and a two-dimensional Volterra integral equation	9:00-9:50 N.Ford Mathematical modelling of autoimmunity	9:00-9:50 Z. Jackiewicz Construction of implicit-explicit dimsim of high order
9:50-10:40 F. Almeida The choice of basis for projection methods in weakly singular integral equations.	9:50-10:15 P. Thanh An Method of multiple shooting for ODE boundary value problems and application for finding geometric shortest paths.	9:50-10:40 P. Oliveira The mathematics of ageing: from the heart to the eye.
	10:15-10:40 W. Auzinger Singular polynomial systems.	
Coffee break: 10:40	Coffee Break : 10:40	Coffee Break: 10:40
11:00- 11:50 G. Vainikko Characterization of fractionally differentiable functions.	11:00- 11:50 M. Vynnycky The singular-perturbation asymptotics and numerics of flow in smectic A liquid crystals.	11:00- 11:50 E. Weinmuller Collocation – an efficient tool for solving singular ODEs and DAEs.
11:50-12:15 A.Pedas Numerical solution of fractional integro-differential equations	11:50-12:40 Y.Xu A Fast Fourier--Galerkin Method Solving a Boundary Integral Equation for the Biharmonic Equation	11:50-12:15 I.Rachunkova Analytical and constructive approach to impulsive boundary value problems.
12:15-12:40 E. Sousa Optical flow with fractional order regularization: variational model and solution method		12:15-12:40 J. Burkotova Solutions structure of singular nonlinear second order ODE.
Lunch break: 12:40	Lunch break: 12:40	Lunch break: 12:40
14:00-14:25 P. Vasconcelos Hierarchical matrices on the Eigenvalue Computation of Integral Operators.	14:00-14:25 K. Nakane An edge detection method for metal grain via a reaction diffusion system.	14:00-14:25 S. McKee On the convergence of a finite difference scheme for a second order differential equation containing nonlinearly a first derivative.
14:25-14:50 H. Kaboul A product integration method for nonlinear Fredholm integral equations in L1.	14:25-14:50 M. Pazouki Evolving Radial Basis Function Neural Network: A learning algorithm for time series forecasting.	14:25-14:50 G. Izzo Composed Multistep Methods for ODEs.

14:50-15:15 S. Seyed Allaei Numerical methods for a class of nonlinear singular second kind Volterra integral equations.	14:50-15:15 J. Roberts Introducing delay dynamics to Bertalanffy's spherical tumour growth model.	14:50-15:15 Z. Bartoszewski Application of the ε -approximate fixed-point method to solving boundary value problems for second order singularly disturbed delay differential equations.
15:15-15:40 L. Ferrás Spectral methods for distributed-order space Riesz diffusion equations.	15:15-15:40 L. Uvarova Modification of the nonlinear Schrodinger equation as a model of propagation of electromagnetic waves in nanostructures.	End of Scientific Program
15:40-16:05 D. Occorsio Approximation of Hadamard finite part transforms on $(0, +\infty)$	15:40-16:05 F. Teodoro Computational methods for a forward-backward equation from physiology.	Guided visit to Lagos
Coffee Break: 16:05	Coffee Break: 16:05	
16:30-16:55 L. Fermo A Nystrom method for mixed boundary value problems on domains with corners.	16:30-16:55 C. Laurita A numerical method for the solution of an exterior Neumann problem on domains with corners.	
16:55-17:20 M.C. De Bonis A Nystrom method for integral equations with fixed singularities of Mellin type in weighted L_p spaces	16:55-17:17:20 B. Li Numerical approximation of singular solutions of the dynamic Ginzburg–Landau equations	
17:20-17:45 M.G. Russo Nystrom methods for Fredholm integral equations defined on strips.	17:20-17:45 S. Valtchev A meshfree method for harmonic problems with singular boundary conditions POSTER SESSION: 18:00	
Reception: 19:00	Conference dinner: 20:00 “Restaurante Adega da Marina”	

POSTER SESSION

<p>R. D'Ambrosio A High order exponentially fitted methods for periodic Volterra integral equations</p>	<p>D. Conte Parallel methods for weakly singular Volterra Integral Equations on GPUs</p>	<p>T. Diogo Numerical investigation of cordial Volterra integral equations.</p>
<p>P. Lima A Stochastic Approach to Neural Field Equations on Unbounded Domains.</p>	<p>L. Morgado Collocation methods with smoothing variable substitutions for singular Δ-laplacian free boundary problems</p>	<p>K. Nakane The application of Homology analysis for the periodic patterns</p>
<p>M. Rebelo A spectral collocation method for the diffusion equation with distributed order in time.</p>		