

4th September		5th September		6th September		7th September		8th September		
	PLENARY SESSIONS		PLENARY SESSIONS		PLENARY SESSIONS		PLENARY SESSIONS		PLENARY SESSIONS	
hoo - 9h45 UD h45 - 10h30 UD	Opening Session Luís Oliveira e Silva (Department of Physics, IST, University of Lisbon, Portugal)	9h00 - 9h45 AUD	Peter Bastian (IWR, University of Heidelberg, Germany) Multithreaded Multilevel Spectral Domain Decomposition	9h00 - 9h45 AUD	Paola Francesca Antonietti (MOX, Department of Mathematics, Politecnico di Milano, Italy) Mathematical and numerical modeling of neurodegenerative diseases	9h00 - 9h45 AUD	Habib Ammari (Department of Mathematics, ETH, Zurich, Switzerland) From condensed matter theory to sub-wavelength physics	9hoo - 9h45 AUD	Carola-Bibiane Schönlieb (DAMTP, University of Cambridge, UK) From differential equations to deep learning for image analysis	
	Challenges in numerical modeling of extreme plasma physics in the laboratory and in astrophysics	9h45 - 10h30 AUD	Mária Lukácová-Medvidová (Institute of Mathematics, University of Mainz, Germany) What is a limit of numerical methods for compressible flows?	9h45 - 10h30 AUD	Alessandro Veneziani (MATHCS, University of Emory, USA) The Role of Applied Mathematics in the Design of Coronary Stents	9h45 - 10h30 AUD	Jean-Marie Mirebeau (Department of Mathematics, University of Paris-Sud, France) Discretization of anisotropic PDEs using Voronoi's reduction of positive quadratic forms	9h45 - 10h30 AUD	José Carillo de la Plata (Mathematical Institute, University of Oxford, UK) Primal Dual methods for Wasserstein gradient flows	
0-11h00	Coffee break	10h30-11h00	Coffee break	10h30-11h00	Coffee break	10h30-11h00	Coffee break	10h30-11h00	Coffee break	
				11h00 - 11h45 AUD	Sara Zahedi (Department of Mathematics, KTH, Stockholm, Sweden)					
	MINISYMPOSIA SESSIONS		MINISYMPOSIA SESSIONS	11h45 - 12h30 Da AUD (In	Conservative Cut Finite Element Methods Daniel Peterseim (Institute of Mathematics, University of Augsburg, Germany) Numerical solution of nonlinear eigenvector problems	M	IINISYMPOSIA/ SPECIAL SESSIONS	N	MINISYMPOSIA/ SPECIAL SESSIONS	
	Room: AUD MS31 - part 1 Advances in polytopal methods for multiphysics problems	11h00 - 12h40	Room: AUD MS13 - part 1 Nonlinear problems in fluid mechanics and related problems				Room: AUD MS35 - part 1 Solving Multiphysics/Multiscale Problems: A Challenge between (Reduced) Model-Driven and Data-Driven approaches	11h00 - 12h40	Room: AUD CT3 Special Session	
	Room: VA1 MS02 - part 1 Mixed Precision Computations in Theory and Practice		Room: VA1 MS14 - part 3 Goal-oriented Error Estimation and Adaptivity				Room: VA1 MS04 - part 1 Approximated boundary methods: modelling, mathematical analysis and simulations		Room: VA1 MS03 - part 2 Numerical methods for fractional-derivative problems	
	Room: VA2 MS08 - part 1 Problems in biomedical fluid mechanics		Room: VA2 MS16 - part 1 Theoretical and numerical developments for high-dimensional parametric PDEs				Room: VA2 MS07 - part 1 Space-time methods for evolutionary PDEs		Room: VA2 MS29 - part 2 Efficient numerical methods in computational biomechanics	
	Room: VA3 MS37 - part 1 Diseases, Diagnosis, Treatment: Mathematical Modeling and Numerical Analysis		Room: VA3 MS17 - part 1 Analysis and Numerics for Systems of Nonlinear PDEs in Mathematical				Room: VA3 MS41 - part 2 Finite Element Methods for Constrained Problems		Room: VA3 MS18 - part 2 Efficient numerical methods for direct or inverse wave propagation problems	
noo - 12h4o	Room: VA4 MS25 - part 1 Transport at multiple scales in medical processes: from modelling to simulation		Room: VA4 MS30 - part 2 Robust Numerical Methods for Nonlinear and Coupled Diffusion Problems in			11h00 - 12h40	Room: VA4 MS24 - part 1 Structure-preserving unfitted finite element discretizations		Room: VA4 MS04 - part 3 Approximated boundary method modelling, mathematical analysis and simulation	
	Room: 01.1 MS14 - part 1 Goal-oriented Error Estimation and Adaptivity		Room: 01.1 MS26 Multiscale and reduced-order modeling for poroelasticity				Room: 01.1 MS03 - part 1 Numerical methods for fractional-derivative problems		Room: 01.1 MS22 - part 3 Model reduction and efficient linear algebra techniques for direct and inverse problems	
	Room: 02.1 MS15 - part 1 Mathematical and computational models of cells, cell-populations, and applications thereof		Room: 02.1 MS09 - part 1 Non-homogeneous and multicomponent fluids for environmental applications				Room: 02.1 MS22 - part 1 Model reduction and efficient linear algebra techniques for direct and inverse problems		Room: 02.1 MS38 - part 1 Optimal control and parameter estimation problems with applications in biomedicine	
	Room: 02.2 MS01 - part 1 Multilevel and Multiscale Methods for PDEs		Room: 02.2 MS01 - part 3 Multilevel and Multiscale Methods for PDEs				Room: 02.2 MS13 - part 2 Nonlinear problems in fluid mechanics and related problems		Room: 02.2 MS27 - part 2 Novel numerical methods for the solution of nonlinear hyperbolic PDE's	
	Room: 02.3 MS21 - part 1 Surface geometry approximation and vector-valued PDEs		Room: 02.3 MS12 - part 1 Structure-Preserving and Efficient Neural Networks for Scientific Machine Learning				Room: 02.3 MS28 - part 1 Reduced-order modeling and learning of parameterized dynamical systems: state-of-the-art vs. avant-garde methods		Room: 02.3 CT4 Special Session	
2h40-14h00 Lunch		12h40-14h00	Lunch				12h40-14h00 Lunch		12h40-14h00 Lunch	
	Room: AF MS31- part2 Advances in polytopal methods for multiphysics problems		Room: AF MS06 - part 2 Theoretical and computational aspects of the discontinuous Galerkin method				Room: AF MS35 - part 2 Solving Multiphysics/Multiscale Problems: A Challenge between (Reduced) Model-Driven and Data-Driven approaches			
	Room: VA1 MS02- part2 Mixed Precision Computations in Theory and Practice		Room: VA1 MS19 - part 2 Addressing Industrial Challenges in The Numerical Modeling of Flow and Geomechanics in Porous Media				Room: VA1 MS24 - part 2 Structure-preserving unfitted finite element discretizations		Room: VA1 MS03 - part 3 Numerical methods for fractional-derivative problems	
	Room: VA2 MS08 - part2 Problems in biomedical fluid mechanics		Room: VA2 MS16 - part 2 Theoretical and numerical developments for high-dimensional parametric PDEs				Room: VA2 MS36 - part 1 Special Session: Meshfree methods for direct and inverse problems in partial differential equations. <i>In memoriam of Prof. Carlos J.S. Alves</i>		Room: VA2 MS29 - part 3 Efficient numerical methods in computational biomechanics	
	Room: VA3 MS37 - part 2 Diseases, Diagnosis, Treatment: Mathematical Modeling and Numerical Analysis	14h00 - 15h40	Room: VA3 MS34 - part 1 Efficient Solvers for Coupled Problems in Porous Media		FREE AFTERNOON		Room: VA3 MS07 - part 2 Space-time methods for evolutionary PDEs	14h00 - 15h40	Room: VA3 MS18 - part 3 Efficient numerical methods for direct or inverse wave propagation problems	
100 - 15h40	Room: VA4 MS20 - part 1 Modern simulation & data science techniques for computational fluid dynamics problems in the exascale range		Room: VA4 MS30 - part 3 Robust Numerical Methods for Nonlinear and Coupled Diffusion Problems in Biology			14h00 - 15h40	Room: VA4 MS39 - part 1 Numerical methods for nonlinear and coupled processes (flow, reactive transport and deformation) in porous media		Room: VA4 MS39 - part 3 Numerical methods for nonlinear and coupled processes (flow, reactive transport and deformation) in porous media	
	Room: 01.1 MS14 - part 2 Goal-oriented Error Estimation and Adaptivity		Room: 01.1 MS40 - part 1 Multi-scale mathematical modeling of human diseases				Room: 01.1 MS40 - part 2 Multi-scale mathematical modeling of human diseases			
	Room: 02.1 MS15 - part 2 Mathematical and computational models of cells, cell-populations, and applications thereof		Room: 02.1 MS09 - part 2 Non-homogeneous and multicomponent fluids for environmental applications				Room: 02.1 MS22 - part 2 Model reduction and efficient linear algebra techniques for direct and inverse problems		Room: 02.1 MS42 Nonsmooth and nonconvex optimization	
	Room: 02.2 MS01 - part 2 Multilevel and Multiscale Methods for PDEs		Room: 02.2 MS11 - part 1 Reducing the irreducible: model reduction for transport-dominated problems				Room: 02.2 MS13 - part 3 Nonlinear problems in fluid mechanics and related problems		Room: 02.2 MS38 - part 2 Optimal control and parameter estimation problems with applications in biomedicine	
	Room: 02.3 MS21 - part 2 Surface geometry approximation and vector-valued PDEs		Room: 02.3 MS12 - part 2 Structure-Preserving and Efficient Neural Networks for Scientific Machine Learning				Room: 02.3 MS28 - part 2 Reduced-order modeling and learning of parameterized dynamical systems: state-of-the-art vs. avant-garde methods		Room: 02.3 MS27 - part 3 Novel numerical methods for the solution of nonlinear hyperbolic PDE's	
140-16h10	Coffee break	15h40-16h10	Coffee break			15h40-16h10	Coffee break			
	Room: AF MS06 - part 1 Theoretical and computational aspects of the discontinuous Galerkin method		Room: AF MS06 - part 3 Theoretical and computational aspects of the discontinuous Galerkin method				Room: AF MS29 - part 1 Efficient numerical methods in computational biomechanics	15h40-16h00 16h00	Closing Session and Poster Awards	
	Room: VA1 MS19 - part 1 Addressing Industrial Challenges in The Numerical Modeling of Flow and		Room: VA1 MS20 - part 3 Modern simulation & data science techniques for computational fluid		Tagus River Cruise		Room: VA1 MS04 - part 2 Approximated boundary methods: modelling, mathematical analysis and simulations + MS23 - part 2 Multiscale methods for wave propagation			
	Room: VA2 MS25 - part 2 Transport at multiple scales in medical processes: from modelling to		Room: VA2 MS34 - part 2 Efficient Solvers for Coupled Problems in Porous Media + MS10 - part 2 Entropy/energy-stable				Room: VA2 MS36 - part 2 Special Session: Meshfree methods for direct and inverse problems in partial differential		Farewell coffee	
	Room: VA3 MS10 - part 1 Entropy/energy-stable methods for time evolution problems	16h10 - 17h50	Room: VA3 MS41 - part 1 Finite Element Methods for Constrained Problems				equations. In memoriam of Prof. Carlos J.S. Alves Room: VA3 MS18 - part 1 Efficient numerical methods for direct or inverse wave propagation problems		1 die wett conce	
n10 - 17h50	Room: VA4 MS20 - part 2 Modern simulation & data science techniques for computational fluid dynamics		Room: VA4 MS31 - part 3 Advances in polytopal methods for multiphysics problems			16h10 - 17h50	Room: VA4 MS39 - part 2 Numerical methods for nonlinear and coupled processes (flow, reactive transport			
,50	Room: 01.1 MS30 - part 1 Robust Numerical Methods for		Room: 01.1 MS23 - part 1 Multiscale methods for wave				and deformation) in porous media Room: 01.1 MS27 - part 1 Novel numerical methods for the			
	Nonlinear and Coupled Diffusion Problems in Biology Room: 02.1 MS32 - part 1 Numerical methods for perturbed		Room: 02.1 MS17 - part 2 Analysis and Numerics for Systems	17h00			solution of nonlinear hyperbolic PDE's Room: 02.1 CT1 Special Session			
	saddle-point formulations arising in coupled problems and applications to poromechanics Room: 02.2 MS37 - part 3 Diseases, Diagnosis, Treatment:		of Nonlinear PDEs in Mathematical Biology Room: 02.2 MS11 - part 2 Reducing the irreducible: model				Room: 02.3 CT2 Special Session			
	Mathematical Modeling and Numerical Analysis		reduction for transport-dominated problems							
	Room: 02.3 MS05 Stable multiderivative time-integrators		Room: 02.3 MS32 - part 2 Numerical methods for perturbed							