

SUNDAY, MAY 28**Registration 18:30 – 19:00 outside “Ballroom”****Welcome Reception 19:00 – 20:30** at the pool area**MONDAY, MAY 29** – All presentations will take place in the room **Ballroom** of the hotel

08:15	–	09:15	Registration	
09:15	–	09:30	Welcome and Opening Remarks	
09:30	–	09:50	Leszek Demkowicz , Ivo Babuška tribute	Chair Zohar Yosibash
09:50	–	10:15	Leszek Demkowicz , Markus J. Melenk, Stefan Henneking, Jacob Badger, <i>Full envelope DPG approximation for electromagnetic waveguides. stability and convergence analysis</i>	
10:15	–	10:40	Coffee Break	
10:40	–	11:05	Witold Cecot , Marta Oleksy, Marek Klimczak, <i>Multiscale FEM and DPG methodology for upscaling in solid mechanics</i>	Chair Markus Melenk
11:05	–	11:30	Jacob Badger , Leszek Demkowicz, <i>Scalable hp-adaptive DPG multigrid solver with applications in high-frequency wave propagation</i>	
11:30	–	11:55	Judit Muñoz-Matute , Leszek Demkowicz, David Pardo, <i>The DPG method as a time-integration scheme for linear and non-linear transient PDEs</i>	
11:55	–	12:20	Brendan Keith , Thomas Surowiec, <i>The entropic finite element method</i>	
12:20	–	14:20	Lunch	
14:20	–	14:45	Philipp Kopp , Ernst Rank Victor Calo, Stefan Kollmannsberger, <i>Immersed space-time hp-finite elements for temperature evolution in laser powder bed fusion</i>	Chair Alexander Düster
14:45	–	15:20	Marco Zank , <i>Space-time continuous Galerkin methods for the wave equation</i>	
15:20	–	15:45	Paolo Bignardi, Andrea Moiola , <i>A space-time continuous and coercive formulation for the wave equation</i>	
15:45	–	16:10	Coffee Break	
16:10	–	16:35	Massimo Carraturo , <i>Modeling, calibration, and validation of powder bed fusion process simulations using the finite cell method</i>	Chair Giancarlo Sangalli
16:35	–	17:00	Lisa Hug , Stefan Kollmannsberger, Ernst Rank, <i>Adaptive phase-field simulations with the parallel finite cell method</i>	
17:00	–	17:25	Paul Houston , Matthew E. Hubbard, Thomas J. Radley, Oliver J. Sutton, Richard S.J. Widdowson, <i>hp-version polytopic discontinuous Galerkin methods for radiation transport Problems</i>	

17:25		17:50	Théophile Chaumont-Frelet , Axel Modave, <i>A hybridizable discontinuous Galerkin method with characteristic variables for high-frequency wave propagation problems</i>	
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15:45	–	17:50	Poster Presentations*	
	–		Balázs Tóth , Alexander Düster, <i>Adaptive radial basis function finite difference scheme for linear elasticity problems</i>	
			Christos Xenophontos, Sebastian Franz, Irene Sykopetritou , <i>Mixed hp finite element method for singularly perturbed fourth order boundary value problems with two small parameters</i>	
			Hind Lamsikine, Otmane Souhar, Georgios C. Georgiou , <i>The singular function boundary integral method for solving three-dimensional Laplacian problems with conical vertex singularities</i>	
			Christos Xenophontos, Neofytos Neofytou , <i>hp discontinuous Galerkin finite element methods for the approximation of singularly perturbed boundary value problems with two small parameters</i>	

* Posters will be displayed in the afternoon of May 29 and remain throughout the conference.

TUESDAY, MAY 30 – All presentations will take place in the room **Ballroom**

09:00	–	09:25	Alessandro Reali , <i>Isogeometric analysis: advances and applications with a special focus on dynamic problems</i>	Chair Ernst Rank
09:25	–	09:50	Monica Montardini , Giancarlo Sangalli, Mattia Tani, <i>Low-rank solver for isogeometric analysis</i>	
09:50	–	10:15	Mattia Tani , Monica Montardini, <i>Fast Poisson solvers for isogeometric analysis</i>	
10:15	–	10:40	Coffee Break	
10:40	–	11:05	Gregor Gantner, Martin Vohralík , <i>Inexpensive polynomial-degree-robust equilibrated flux a posteriori estimates for isogeometric analysis</i>	Chair Stefan Kollmannsberger
11:05	–	11:30	Andrea Bressan , <i>Anisotropic refinement with LR-splines</i>	
11:30	–	11:55	Matthias Möller , <i>IgANets: Physics-informed machine learning embedded into isogeometric analysis</i>	
11:55	–	12:20	G. Loli, M. Montardini, G. Sangalli , M. Tani, <i>Space-time IGA</i>	

12:20	–	14:20	Lunch	
14:20	–	14:45	Christoph Schwab , Lehel Banjai, Markus Melenk, <i>Exponential convergence of hp FEM for spectral fractional diffusion in polygons</i>	Chair Christos Xenophonos
14:45	–	15:20	Markus Faustmann, Carlo Marcati , Jens Markus Melenk, Christoph Schwab, <i>Weighted analytic regularity for the integral fractional Laplacian in polygons</i>	
15:20	–	15:45	Markus Faustmann, Carlo Marcati, Jens M. Melenk , Christoph Schwab, <i>Exponential convergence of hp-FEM for the integral fractional Laplacian</i>	
15:45	–	16:10	Coffee Break	
16:10	–	16:35	Andreas Schröder , Paolo Di Stolfo, <i>hp-finite elements with higher differentiability on meshes with hanging nodes</i>	Chair Alessandro Reali
16:35	–	17:00	Cesare Bracco, Carlotta Giannelli , Mario Kapl, Rafael Vázquez, <i>High order hierarchical spline methods on multi-patch geometries</i>	
17:00	–	17:25	Alexander Düster , Wadhah Garhuom, <i>Improving the robustness of the finite cell method for nonlinear problems of solid mechanics</i>	
17:25	–	17:55	Maciej Paszyński , <i>Deep neural networks for smooth approximation of physics with higher order and continuity basis functions</i>	
20:30	–		Conference Dinner – Location: Elia Backyard	

WEDNESDAY, MAY 31 – All presentations will take place in the **Ballroom**

09:00	–	09:25	Zohar Yosibash , Maxime Levy, <i>Crack nucleation in a 1D heterogeneous bar: h- and p-FE approximation of a phase field model</i>	Chair Harri Hakula
09:25	–	09:50	Nima Azizi , Wolfgang Dornisch, <i>An effort to utilize high order exact geometrically defined Reissner-Mindlin spectral shell elements: Advantages and problems</i>	
09:50	–	10:15	Norbert Heuer, Torsten Linß , <i>Uniform convergence of an arbitrary order balanced FEM applied to a singularly perturbed shell problem</i>	
10:15	–	10:40	Coffee Break	
10:40	–	11:05	Daniele Boffi , <i>Model order reduction for parametric eigenvalue problems</i>	Chair Christoph Schwab
11:05	–	11:30	Lukasz Kaczmarczyk , Christophe-Alexandre Chalons-Mouriesse, Chris Pearce, <i>A mixed finite element method for 3D in-elasticity problems at large strains with weakly imposed symmetry</i>	

11:30	–	11:55	Alexey Chernov, Tung Le , <i>On analytic and Gevrey class regularity for parametric elliptic eigenvalue problems</i>	
11:55	–	12:20	Sascha Eisenträger , Wadhah Garhuom, Fabian Duvigneau, Stefan Löhnert, Alexander Düster, Dominik Schillinger, <i>On a stabilization technique for fictitious domain methods based on an eigenvalue decomposition: Time-dependent problems</i>	
12:20	–	14:15	Lunch	
14:15	–		Wednesday afternoon EXCURSION – Tour and dinner in Limassol (Guided tour in Limassol and dinner at “Folia tou Drakou” tavern in Pentakomo)	

THURSDAY, JUNE 1 – All presentations will take place in the room **Ballroom**

09:00	–	09:25	Harri Hakula , <i>Conformal mappings, reciprocal error estimates, and Laplace-Beltrami operator</i>	Chair Andreas Schröder
09:25	–	09:50	Bernard Kapidani, Rafael Vázquez , <i>Fast computation of electromagnetic wave propagation with spline differential forms</i>	
09:50	–	10:15	Deepesh Toshniwal , <i>Discrete de Rham complex of hierarchical spline differential forms in \mathbf{R}^n</i>	
10:15	–	10:40	Coffee Break	
10:40	–	11:05	Stefan Tyoler , Stefan Takacs, <i>Efficient computation of a spline basis for adaptive multipatch discretizations</i>	Chair Leszek Demkowicz
11:05	–	11:30	Dohyun Kim , Brendan Keith, <i>DynAMO: Dynamic anticipatory mesh optimization with reinforcement learning</i>	
11:30	–	11:55	Erik Burman, Guillaume Delay , Alexandre Ern, <i>The unique continuation problem for the heat equation discretized with a high-order space-time nonconforming method</i>	
11:55	–	12:00	END OF CONFERENCE	