



## SCIENTIFIC PROGRAM

Tuesday, September 20	
14:20–14:40	<i>Welcome &amp; Opening</i>
14:40–15:05	Tom Lyche: Simplex spline bases for smooth splines on refined triangulations
15:05–15:30	Jan Gröselj: On constructing non-negative edge basis functions for representation of splines over triangulations
15:30–15:55	Marton Vaitkus: Multi-sided spline interpolation of curve networks
15:55–16:20	Ada Sadl Praprotnik: Exact sphere representations over Platonic solids based on rational multi-sided Bézier patches
16:20–16:50	<b>Coffee break</b>
16:50–17:15	Ales Vavpetic: Geometric approximation of the sphere by biquadratic tensor polynomial spline patches
17:15–17:40	Hans-Peter Schröcker: A Linear Algebra Approach to Rational PH Curves
17:40–18:05	Francesc Aràndiga: A Nonlinear B-spline quasi-interpolation method
18:05–18:30	Christophe Rabut: Homogeneity in mathematics: what, why and how
Wednesday, September 21	
09:00–10:00	<b>Carola-Bibiane Schönlieb: Mathematical imaging: From geometric PDEs and variational modelling to deep learning for images</b>
10:00–10:25	Simone Cammarasana: Signal despeckling with learned regularisation
10:25–10:50	Rosa Donat: 2D prediction operators based on multiquadric local interpolation with adaptive parameter estimation. Applications to image compression
10:50–11:20	<b>Coffee break</b>
11:20–11:45	Giuseppe Recupero: Geometric texture transfer via alternative descriptors
11:45–12:10	Chiara Romanengo: Recognition and fitting of curves and surfaces in 3D digital models via the Hough Transform technique
12:10–12:35	Domenico Vitulano: Source camera identification through noise information
12:35–13:00	Uaday Singh: On rate of convergence of matrix means of corrected Fourier series
13:00–14:30	<b>Lunch</b>
14:30–15:30	<b>Michael Unser: Variational Learning with Simplicial Splines</b>
15:30–15:55	Sofia Imperatore: On spline weighted least square approximation
15:55–16:20	Rosanna Campagna: An algorithm for non negative P-spline
16:20–16:50	<b>Coffee break</b>
16:50–17:15	Emma Perracchione: On kernel-target alignment for data-driven approximation
17:15–17:40	Chiara Sogrentone: Layer potentials near surfaces with spherical topology
Thursday, September 22	
09:00–10:00	<b>Johannes Wallner: Geometric subdivision and multiresolution</b>
10:00–10:25	Wael Mattar: Multiscale representations of manifold-valued data via non-interpolating subdivision schemes
10:25–10:50	Alberto Viscardi: Optimized dual interpolating subdivision schemes
10:50–11:20	<b>Coffee break</b>
11:20–11:45	Ioannis Ivrişsimtzis: Bivariate non-uniform subdivision schemes based on L-systems
11:45–12:10	Alexander Komar: Towards an evolutionary approximation of subdivision control meshes
12:10–12:35	Akhilesh Prasad: Weyl transform associated with linear canonical wavelets
12:35–13:45	<b>Lunch</b>
13:45–15:15	<b>Poster Session</b> (Eddargani, Kravets, Lazzaro, Remogna, Romani) + <b>Fruit and Coffee</b>
15:30–19:30	<i>Trip</i>
19:30–23:00	<i>Social dinner</i>

**Friday, September 23**

09:00–10:00	<b>Carla Manni: From spline error estimates to outlier-free isogeometric discretizations</b>
10:00–10:25	Espen Sande: Best approximations of matrices and differential operators
10:25–10:50	Carlo Garoni: Spectral analysis of matrices from isogeometric immersed methods
10:50–11:20	<b>Coffee break</b>
11:20–11:45	Tadej Kanduc: Numerical integration for isogeometric BEM applied to 3D Helmholtz problems on multipatch domains
11:45–12:10	Giuseppe Alessio D’Inverno: Hierarchical matrices techniques for Helmholtz problem in IgABEM setting
12:10–12:35	Bruno Degli Esposti: 3D IgA-BEM with nonconformal $C^0$ multipatch spline spaces
12:35–13:00	Felix Scholz: High-order numerical integration for trimmed Isogeometric Analysis
13:00–14:30	<b>Lunch</b>
14:30–15:30	<b>Thomas Takacs: Approximate <math>C^1</math>-smoothness in isogeometric analysis</b>
15:30–15:55	Deepesh Toshniwal: Almost- $C^1$ splines
15:55–16:20	Francesco Patrizi: Conforming/Non-Conforming Isogeometric de Rham complex discretization in disk-like domains via polar splines: applications to electromagnetism
16:20–16:50	<b>Coffee break</b>
16:50–17:15	Mariarosa Mazza: On the matrices in B-spline collocation/Galerkin methods for a kind of fractional differential equation
17:15–17:40	Cesare Bracco: Discontinuity detection-based meshless numerical method for conservation laws
17:40–18:05	Jiri Kosinka: Quadratures for Gregory Patches

**Saturday, September 24**

09:00–10:00	<b>Hartmut Prautzsch: Rational spline manifolds</b>
10:00–10:25	Michelangelo Marsala: Point cloud data fitting via $G^1$ smooth spline basis functions
10:25–10:50	Carolina Beccari: Multi-degree B-splines and their stable evaluation
10:50–11:20	<b>Coffee break</b>
11:20–11:45	Marjeta Knez: Construction of spatial Pythagorean-hodograph $G^2$ Hermite interpolants with prescribed arc lengths
11:45–12:10	Emil Žagar: Interpolation of planar $G^1$ data by Pythagorean-hodograph cubic biarcs with prescribed arc-length
12:10–12:35	Filip Chudy: Accelerating some algorithms for CAGD and dual Bernstein bases
12:35–12:45	<i>Closing Remarks</i>