Program of the Conference ATMA2024

11 giugno	
The registration will be opened from 15:00 until 18:00 in the Conference Hall	
16:00 – 17:00	**Poster session**
17:00 – 18:00	**Welcome Cocktail**
18:00 –	**Guided Tour in Lecce**

12 giugno	
9:00 – 9:30	**Opening Ceremony**
Chairman: **Roberto Cavoretto**	
9:30 – 10:10	**Danilo Costarelli** *Approximation properties and applications of sampling-type operators*
10:15 – 10:55	**Filomena Di Tommaso** *Multinode Shepard method: theory and applications*
10:55 – 11:25	*Coffee break*
Chairman: **Laura Angeloni**	
11:25 – 11:40	**Lorenzo Boccali,** *Danilo Costarelli, Gianluca Vinti* *Approximation by Max–product Sampling Kantorovich operators: quantitative estimates in Functional Spaces*
11:45 – 12:00	**Marco Cantarini,** *Danilo Costarelli, Gianluca Vinti* *Approximation properties of Sampling Kantorovich operators in Sobolev settings*
12:05 – 12:20	**Rosario Corso**, *Gianluca Vinti* *Mean sampling Kantorovich operators*
12:25 – 12:40	**Eleonora De Angelis,** *Danilo Costarelli, Gianluca Vinti* *Convergence and order of approximation for perturbed operators*
12:45 – 13:00	**Ivan Gadjev** *On the constants in Hardy Inequalities in L_p and l_p*
13:05 – 13:20	**Vincenzo Schiano Di Cola,** *Marco Berardi, Salvatore Cuomo* *Approximation Techniques for Environmental Modeling: Insights and Applications*
Pausa Lunch	
Chairman: **Alvise Sommariva**	
15:00 – 15:15	**Valerii A. Galkin** *(online)* *Approximations of Topological Structures in Flows Described by Navier-Stokes Equations for Incompressible Fluid*
15:20 – 15:35	**Yuan Xu** *Minimal cubature rules and interpolation on the square*
15:40 – 15:55	**Francesca Acotto,** *Ezio Venturino, Iulia Martina Bulai* *Interaction between individualistic predators and responsive herd of prey*
16:00 – 16:15	**Kaido Lätt,** *Arvet Pedas* *Approximate solution of singular fractional integro-differential equations*
16:20 – 16:35	**Svilen S. Valtchev** *Meshfree Domain Decomposition Methods with Fundamental Solutions for Elliptic Boundary Value Problems*
16:40 – 17:10	*Coffee break*
17:10 – 19:00	**Groups Assemblies (RITA, TAA, ANA&A)**

13 giugno

Time	Speaker / Title
9:00 – 9:40	**Kai Diethelm** *The Approximation of Power Functions with Exponents in (–1, 0) by Sums of Exponentials and Its Applications*
9:45 – 10:25	**Maryam Mohammadi,** *Mohammad Heidari, Stefano De Marchi, Milvia Rossini* *How differential geometry works in the RBF approximation theory!*
10:25 – 10:55	*Coffee break*

Chairman: **Donatella Occorsio**

Time	Speaker / Title
10:55 – 11:10	**Jean–Paul Berrut,** *Richard Baltensperger, Malika Jan* *Rational sinc interpolants and point shifts*
11:15 – 11:30	**Alvise Sommariva,** *Marco Vianello* *On unisolvence of unsymmetric random Kansa collocation*
11:35 – 11:50	**Giacomo Elefante,** *Alvise Sommariva, Marco Vianello* *CQMC: Tchakaloff–like compression of QMC integration*
11:55 – 12:10	**Francesco Marchetti**, *Tizian Wenzel, Emma Perracchione* *A machine learning perspective for optimized kernel–based approximation*
12:15 – 12:30	**Gianluca Audone,** *Francesco Della Santa, Emma Perracchione, Sandra Pieraccini* *Variably Scaled Kernels: A Deep Learning Approach to Adaptive Scale Selection*
12:35 – 12:50	**Leokadia Białas-Cież**, *Mateusz Suder* *Evaluating Lebesgue constants by Chebyshev polynomial meshes on cube, simplex and ball*
12:55 – 13:10	**Dimitri Jordan Kenne** *Chebyshev admissible meshes and Lebesgue constants of complex polynomial projections*

Pausa Lunch

Chairman: **Stefano De Marchi**

Time	Speaker / Title
15:00 – 15:40	Open problems conference: **Francesco Altomare,** *Local approximation problems and Korovkin–type theorems*
15:45 – 16:00	**Domenico Mezzanotte,** *Luisa Fermo, Donatella Occorsio* *A global method for Volterra-Fredholm integral equations*
16:05 – 16:20	**Luisa Fermo,** *Domenico Mezzanotte, Donatella Occorsio* *Numerical treatment of mixed Volterra-Fredholm integral equations*
16:20 – 16:50	*Coffee break*

Chairman: **Lucia Romani**

Time	Speaker / Title
16:50 – 17:05	**Mikk Vikerpuur,** *Arvet Pedas* *Approximate solutions to linear fractional integro-differential equations*
17:10 – 17:25	**Rumen Uluchev,** *Ivan Gadjev, Parvan Parvanov* *Recent Progress in Weighted L_p-Approximation of Functions by Kantorovich-type Operators*
17:30 – 17:45	**Borislav R. Draganov** *Approximation by Kantorovich sampling operators in variable exponent Lebesgue spaces*
19:45 –	**Social dinner and Musical show (Music and dancing from Salento)**

14 giugno	
Chairman: **Vita Leonessa**	
9:00 – 9:40	**Ioan Rasa**, *Ana-Maria Acu (online)* *Positive linear operators, convexity and approximation* (online conference)
9:45 – 10:25	**Mirella Cappelletti Montano,** *Francesco Altomare, Vita Leonessa* *Representation formulae for strongly continuous semigroups in terms of* *integrated means and related approximation processes*
10:25 – 10:55	*Coffee break*
Chairman: **Clemente Cesarano**	
10:55 – 11:10	**Gheorghe Bucur** *Multiplicative Characteristic Functions*
11:15 – 11:30	**Ileana Bucur** *Multiplicative Characteristic Functions*
11:35 – 11:50	**Harun Karsli** *On wavelet type Chlodovsky Operators and their Bézier-type variants*
11:55 – 12:10	**Geno Nikolov** *Bounds for the Extreme Zeroes of Jacobi Polynomials*
12:15 – 12:30	**Francesco Esposito** *Holomorphic L^2 signals of several complex variables*
12:35 – 12:50	**Domenico Vitulano,** *Vittoria Bruni, Silvia Marconi* *A Formal Approximation of CNN Filters*
12:55 – 13:10	**Conference closure**