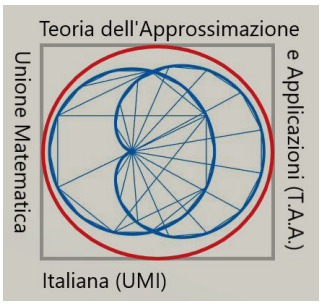
International Conference on Approximation Theory and Applications
Cetraro, Italy, 18-22 June 2023



Sunday, June 18	
17:30– 19:30	*Annual Meeting of the UMI-TAA group*
19:30–	**Welcome drink**
Monday, June 19	
09:00– 09:20	*Opening remarks by S. De Marchi (Coordinator UMI-TAA, UniPD) and G. Greco (Head Department of Mathematics and Computer Science, UniCAL)*
	Chair: F. Dell'Accio
09:20–10:05	**N. L. Trefethen: Analytic Continuation, Rational Approximation, and Laplace Problems**
10:10–10:35	M. Piconi: On the regularization properties of Durrmeyer-sampling type operators in Lp -spaces
10:40–11:10	**Coffee break**
	Chair: G. Vinti
11:10–11:35	D. Costarelli: Estimates of the Approximation error for Neural Network Operators
11:40–12:05	C. Berg: Orthogonal Polynomials and the associated Jacobi Operator
12:10–12:35	L. Zampogni: Some Results on approximation with nonlinear operators in Orlicz spaces
12:40–13:05	G. Bellomonte: Continuous (Semi-)Frames for Unbounded Operators
13:05–13:15	**P. Cannarsa: greetings from the President of UMI**
13:15–16:00	**Lunch and free working time**
	Chair: L. Angeloni
16:00–16:25	R. Corso: Some recent results about the spectrum of a dual frames multiplier
16:30–16:55	L. Boccali: Convergence results in Orlicz spaces for sequences of max-product Kantorovich sampling operators
17:00–17:30	**Coffee break**
17:30–17:55	A. Travaglini: A Mathematical Model for the Study of Vascular Pathologies
18:00–18:25	M. Cappelletti Montano: Representation formulae for C0-semigroups in terms of integrated means
Tuesday, June 20	
	Chair: M. Campiti
09:00– 09:45	**E. Berdysheva: Approximation of set-valued functions by metric integral operators**
09:50–10:15	D. Barrera: WENO-based quasi-interpolation in the Bernstein basis and applications
10:20–10:45	R. Campagna: An algorithm for a Constrained P-spline
10:50–11:10	**Coffee break**
	Chair: D. Occorsio
11:10–11:35	L. Romani: On the construction of compactly supported fundamental functions for interpolation via polynomial blends
11:40–12:05	T. Sauer: A Moment for Multivariate Continued Fractions
12:10–12:35	W. Themistoclakis: Generalizing Floater - Hormann rational interpolation
12:40–13:05	F. Di Tommaso: On the numerical solution of some elliptic PDEs with Neumann boundary conditions through multinode Shepard method
13:10–17:00	**Lunch and long free working time**
17:00–17:30	**Coffee break**
17:30–17:40	**Maria Charina Prize Ceremony** *Chairs: C. Conti, M. Cotronei, L. Romani* (Online link will be available)
17:40–18:05	Charina Prize lecture. S. López-Ureña: Using annihilation operators to combine several linear subdivision schemes into a single non-linear
18:10–18:35	Charina Prize lecture. A. Viscardi: Univariate Dual Interpolating Subdivision: Characterization, Construction and Implementation
20:00–	**Conference Dinner**
Wednesday, June 21	
	Chair: S. De Marchi
09:00– 09:45	**K. Hess: Topological Data Analysis : extracting insights from the 'shape' of data** (Online)
09:50–10:15	G. Infante: Birkhoff–Kellogg type result in cones with applications
10:20–10:45	F. Nudo: General methods for enriching the simplicial linear finite elements,
10:50–11:20	**Coffee break**
	Chair: M. Cappelletti Montano
11:20–11:45	V. Leonessa: On the solvability of some boundary integral equations of the first kind and applications
11:50–12:15	D. Mezzanotte: A Galerkin-type method for Fredholm integral equations over equispaced nodes
12:20–12:45	G. Elefante: On (β, γ)-Chebyshev functions and points
13:00–16:00	**Lunch and free working time**
	Chair: E. Francomano
16:00–16:25	R. Cavoretto: Hyper-parameter tuning in kernel-based partition of unity methods
16:30–16:55	N. Egidi: Optimal decomposition of the RBF interpolation matrix
17:00–17:30	**Coffee break**
17:30–17:55	F. Marchetti: Mapped variably scaled kernels and applications
18:00–18:25	J. Giacomini: A preconditioning strategy for inverse multiquadric RBF interpolation
Thursday, June 22	
	Chair: M. Cotronei
09:00– 09:45	**P. Grohs: Opportunities and Limitations for Deep Learning in the Sciences**
09:50–10:15	I. M. Bulai: Modeling metastatic tumor evolution, numerical resolution and growth prediction
10:20–10:45	P. Ambrosio: A strongly degenerate parabolic equation in gas filtration problems
10:50–11:10	**Short coffee break**
11:10–11:35	J. Rodríguez-López: Fixed point index theory for compositions of usc multivalued maps
11:40–12:05	N. L. Trefethen: Sigmoidal Functions and Multiscale Resolution of Singularities
12:10–12:20	*Closing remarks: S. De Marchi, F. Dell'Accio, M. Campiti, C. Conti and G. Vinti*
12:30–13:30	**Lunch**