

Approximation Theory

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Abstract: Born in 19th century with the pioneering works of P.L. Chebyshev and K. Weierstrass, Approximation Theory continues to be live branch of mathematics where classical approaches coexist with new methods and the results find more and more applications. Topics covered by this session include but are not limited to:

- Classical and abstract approximation
- Constructive approximation
- Degree of approximation
- Fourier expansions
- Interpolation and quadratures
- Multivariate approximation
- Orthogonal polynomials and special functions
- Rational approximation
- Spline functions of one and several variables