Advanced Strategies for Function Approximation and Numerical Simulation

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The accurate approximation of functions and the numerical simulation of complex phenomena are fundamental challenges in computational science. This mini-symposium will highlight recent advancements in finite element methods (FEM), boundary element methods (BEM) and rational approximation techniques, especially those designed to handle discontinuities. Key topics include novel enrichment strategies for FEM, stable and accurate space-time BEM, and rational approximation methods. The event will provide a platform for experts to discuss cutting-edge numerical techniques and their real-world applications.

Speakers

- Luciano Coppolino, University of Messina, luciano.coppolino@studenti.unime.it
- Francesco Larosa, University of Calabria, francesco.larosa@unical.it
- Federico Nudo, University of Padova, federico.nudo@unipd.it
- Najoua Siar, University Moulay Ismail, Meknes, s.najoua@umi.ac.ma

References

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[2] A. Guessab. Sharp approximations based on Delaunay Triangulations and Voronoi Diagrams, Novosibirsk: NSU Publishing and Printing Center, 2022.

[3] S. Rjasanow, O. Steinbach. The fast solution of boundary integral equations, Springer Science & Business Media, 2007