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Approximation Theory and Application Special Session B10

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This special session is focused on numerical and analytical aspects as well as applications of multivariate approximation problems. Our speakers will discuss kernel-based methods such as applications in high-dimensional interpolation, quasi-interpolation or regression settings. The problems will come from learning-based methods such as deep neural networks or physics-informed neural networks, from signal or image-based analysis settings, as well as computations of partial differential or fractional differential problems. Finally, things might live in cloud-based surfaces, high-dimensional spheres, manifolds, as well as set-valued and vector-valued domains, and our techniques may use analytical, statistical or Bayesian approaches.

For more information visit https://umi.dm.unibo.it/jm-umi-ams/special-sessions/.

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