

Approximation with locally adaptive spline spaces

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ABSTRACT

There exist several types of spline spaces that allow local adaptivity, among them [truncated-]hierarchical-B-splines, analysis-suitable-T-splines and locally-refined-splines. One can study their approximation properties using local approximation operators, often called quasi interpolants [1]. Doing so provides both local and global bounds for the approximation error. I will present an ongoing work where we study the properties of quasi interpolants for different spline spaces. Some references are [2, 3, 4, 5].

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