

New connections between approximation spaces and the greedy algorithm

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Abstract: Approximation spaces are classical spaces where the decay order of the best approximation error is studied. For several years, various authors as P. Wojtaszczyk, G. Garrigós, E. Hernández, etc., have studied these spaces in connection with the greedy algorithm introduced by S. V. Konyagin and V. N. Temlyakov. In this poster, we introduce a generalization of these approximation spaces and identify them with some weighted discrete Lorentz spaces. Additionally, we analyze the relationship between these approximation spaces and certain spaces that arise when analyzing the decay of the approximation error of the greedy algorithm.

References

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