Schwarz Methods: Some Recent Developments

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Abstract

We review some more recent developments in the theory of subspace correction methods with finite and infinite numbers of subproblems in a Hilbert space. The focus is on greedy and stochastic versions of choosing the order of subspace corrections. In the stochastic case, estimates are given for the expectation $\mathbb{E}(\|e(m)\|^2)$ of the squared error. Accelerated versions are presented as well. This is joint work with Michael Griebel (INS, Universität Bonn).

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