

Globalization of Nonlinear FETI-DP Methods

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Nonlinear FETI-DP (Finite Element Tearing and Interconnecting – Dual-Primal) methods [2] are domain decomposition methods for the solution of nonlinear problems from the discretization of PDEs. In these methods, before linearization, the global problem is decomposed into concurrent nonlinear problems. Then, different local elimination strategies can be used, in the sense of nonlinear preconditioning [3]. This talk discusses (exact) penalty methods [1] for the globalization of Nonlinear FETI-DP methods.

REFERENCES

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