

Nonmonotone equilibrium problems: Coercivity conditions and weak regularization

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Abstract

We consider a general equilibrium problem in a finite-dimensional space setting and propose a newcoercivity condition for existence of solutions. We also show that it enables us to create a broad family of regularization methods with preserving well-definiteness and convergence of the iteration sequence without additional monotonicity assumptions. Some examples of applications are also given. © Springer Science+Business Media, LLC. 2010.

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Keywords

Coercivity conditions, Equilibrium problems, Existence of solutions, Nonmonotone bifunctions, Regularization method