Asymptotic behavior of solutions for a family of parametric equilibrium problems

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16.05.2013

Abstract

A certain stability property of a sequence of solutions to parametric equilibrium problems is studied. As a result of changes in the problem data, the behavior of solutions is always of concern. For instance, a sequence of functions may provide a sequence of solutions, therefore we are interested to study asymptotic stability of this sequence. The main result gives sufficient conditions for this purpose. More, the condition linking parametric functions with the limit function is proved to be independent in relationship with Gamma-convergence, for the particular case of parametric optimization.