Contribution ID: **19** Type: **not specified**

Iterated methods for non-monotone quasi-equilibrium problems

Monday, July 9, 2018 3:45 PM (30 minutes)

In this talk a quasi-equilibrium problem with a nonmonotone bifunction is considered in a finite dimensional space. This is a kind of equilibrium problem in sense of Blum and Oettli, or also called Ky Fan inequality, with a constraint set depending on the current point. An extragradient-type method is presented and analyzed for its solution. The convergence of the method is proved under the assumption that the solution set of an associated dual equilibrium problem is nonempty.

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