

On Hausdorff continuity of solution maps to equilibrium problems and applications

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In this talk, we study the stability for equilibrium problems in normed spaces via the scalarization method. Firstly, we consider stability conditions in the sense of Hausdorff continuity for the scalar equilibrium problem without assuming concavity properties of the objective function. Next, using the Hiriart-Urruty oriented distance function, sufficient conditions for the solution maps to the strong vector equilibrium problem via the corresponding one for the scalar model are established. As an application, we apply the obtained results to traffic network equilibrium problems.

Keywords: Equilibrium problem; traffic network equilibrium problem; Hausdorff continuity; Hiriart-Urruty oriented distance function.

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