

Remarks on Fixed Point and Equilibrium Problems

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Abstract

In this manuscript we consider the Fixed Point Problem for two kinds of mapping, one of them are maximal σ premonotone mappings. The idea is transform the Fixed Point Problem onto an Equilibrium Problem in the sense of Blum-Oettli. Here, we introduce two ways in order to do it. The first one explore the properties of maximal σ premonotone mappings and the second one is for any mapping, non necessarily σ premonotone. Also we establish a methodology in order to extend any σ premonotone mapping to a maximal σ premonotone mapping.

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