

A variant of Equilibrium Problem

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The focus of our research is to slightly modify the Equilibrium Problem in the Blum-Oettli sense. The new variant looks like this: (PE) Find x in C : $f(x, y)$ is greater than and equal to zero. Where K is a convex set of a Euclidean space of dimension n and C a closed subset of K . We prove that the results of existence of solutions continue to be valid with slight modifications. Finally, we apply the variant of the equilibrium problem to calculate fixed points of correspondences.