

1163-49-1184

Ouayl Chadli* (ochadli@gmail.com), Department of Economics, Ibn Zohr University, Agadir, Morocco. *Noncoercive mixed equilibrium problems under monotonicity-type conditions with applications to nonlinear evolutions problems and hemivariational inequalities.*

In this talk, we present some results on the existence of solutions for noncoercive mixed equilibrium problems described by the sum of a maximal monotone bifunction and a pseudomonotone (or quasimonotone) bifunction in the sense of Brézis. The approach developed is based on recession analysis and on some recent results established on the existence of solutions of equilibrium problems with pseudomonotone perturbations. As applications, we consider nonlinear evolution equations associated to a noncoercive time dependent pseudomonotone (or quasimonotone) operator and hemivariational inequalities with lack of coercivity. The talk cover some new results by the author and his collaborators recently published. (Received September 15, 2020)