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On Ky Fan's Minimax Inequalities, Mixed Equilibrium Problems and Hemivariational Inequalities

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Abstract: In this note, we present a generalization of the Ky Fan's minimax inequality theorem by means of a new version of the KKM lemma. Application is then given to establish existence of solutions for mixed equilibrium problems. Finally, we investigate the relationship between the latter problems and hemivariational inequalities.



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