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Maximal elements of L_θ -majorized set-valued mappings

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ABSTRACT. In this paper, we study the concept of \mathcal{L}_θ -majorized set-valued mappings. Based on some coercive condition, we generalize Fan's maximal element existence theorem neither compactness nor paracompactness in H -spaces. As an application, we obtain an equilibrium existence theorem for general qualitative games.

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