On convexity in games with a priori unions

Manuel A. Pulido and Joaquín Sánchez-Soriano

Speaker: Manuel A. Pulido
  e-mail: manpul@umh.es
  Universidad Miguel Hernández
  Dpto de Estadística y Matemática Aplicada. Centro de Investigación Operativa
  ESPANA

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ABSTRACT

This paper deals with the concepts of core and Weber set with a priori unions, which henceforth will be referred to as the coalitional core and the coalitional Weber set. The relationships between the core and the Weber set are well known and are particularly interesting in the convex games context. So certain characterizations of convex games come from the relationships between the core and the Weber set. We introduce the class of convex games with a priori unions and study the relationships between the coalitional core and the coalitional Weber set in this new context. We characterize this new class of games showing the relationships between these two solution concepts. We will find both similarities in and differences between the traditional and new results.