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System of Generalized Vector Quasi-Equilibrium Problems in Locally FC-Spaces

丁协平

四川师范大学数学与软件科学学院

摘要   A new class of locally finite continuous topological spaces (for short, locally FC-spaces) and a class of system of generalized vector quasi-equilibrium problems are introduced. By applying a generalized Himmelberg type fixed point theorem for a set-valued mapping with KKM-property due to the author, a collectively fixed point and an equilibrium existence theorem of generalized game are first proved in locally FC-spaces. By applying our equilibrium existence theorem of generalized game, some new existence theorems of equilibrium points for the system of generalized vector quasi-equilibrium problems are proved in locally FC-spaces. These theorems improve, unify and generalize many known results in the literatures.

关键词   Generalized game   System of generalized vector quasi-equilibrium problems KKM property   Himmelberg type fixed point theorem   Locally FC-space

分类号

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Xie Ping DING

College of Mathematics and Software Science, Sichuan Normal University, Chengdu 610066, P. R. China

Abstract A new class of locally finite continuous topological spaces (for short, locally FC-spaces) and a class of system of generalized vector quasi-equilibrium problems are introduced. By applying a generalized Himmelberg type fixed point theorem for a set-valued mapping with KKM-property due to the author, a collectively fixed point and an equilibrium existence theorem of generalized game are first proved in locally FC-spaces. By applying our equilibrium existence theorem of generalized game, some new existence theorems of equilibrium points for the system of generalized vector quasi-equilibrium problems are proved in locally FC-spaces. These theorems improve, unify and generalize many known results in the literatures.

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通讯作者 丁协平 xieping_ding@hotmail.com

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