G-CONTINUOUS MAPPINGS AND G-QUOTIENT MAPPINGS

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Abstract

As a generalization of the usual convergence in topological spaces, a method G on a set X is a function $G: c_G(X) \to X$ defined on a subset $c_G(X)$ which is constituted by some sequences in X. In this paper, we mainly study the G-continuous mappings and the G-quotient mappings determined by G-methods and their connections with continuous mappings and quotient mappings in topological spaces. At the same time, we also discuss some properties of G-open mappings and G-closed mappings, and unify some results of several important convergence of sequences involving continuous mappings and quotient mappings.

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