

عنوان مقاله:

(ANNIHILATING-IDEAL GRAPH OF $C(X)$)

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نویسنده:

M. Badie - Department of Mathematics, Jundi-Shapur University of Technology, P.O. Box 64615/3334, Dezful, Iran

خلاصه مقاله:

In this article the annihilating-ideal graph of the ring $C(X)$ is studied. We have tried to associate the graph properties of $AG(X)$, the ring properties of $C(X)$ and the topological properties of X . It is shown that X has an isolated point if and only if R is a direct summand of $C(X)$ and this happens if and only if $AG(X)$ is not triangulated. Radius, girth, dominating number and clique number of the $AG(X)$ are investigated. It is proved that $c(X) \leq dt(AG(X)) = w(X)$ and $(w_{AG(X)} = \chi_{AG(X)} = c(X)$.

کلمات کلیدی:

Rings of real-valued continuous functions, Annihilating-ideal graph, Clique number, Chromatic number, Cellularity

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