

Fuzzy Chromatic Number of Line Graph using α -Cuts

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Abstract

In this paper, we introduce chromatic number of line graph using α -cuts. The concept of chromatic number of fuzzy graphs was introduced by Munoz et.al, later Eslahchi and onagh. They are defined by the fuzzy chromatic number of complete graphs (kn), cycle graph (cn), star graph (sn), wheel graph (wn), and line graph are found and results are summarized.
