Programme for Vertex Coloring for Complement Fuzzy Graph Using α -Cut

R. Parimaleswari* and A. Leema Rose

Department of Mathematics, Auxilium College of Arts and Science, Regunathapuram, India *Corresponding author: parimaleswari30@gmail.com

ABSTRACT

Let $G = (V, \mu, \sigma)$ be a simple connected directed graph where V is a set of vertices and each vertex has a membership value μ and each edge has a membership value σ . For different value α -cut which depends on edge and vertex membership value of the graph, we will get different graph and different chromatic number. In this paper, we introduced a programme for coloring of complement fuzzy graph, to compute the chromatic number for coloring vertices of the fuzzy graph.

Keywords: Fuzzy graph, Vertex Coloring, Chromatic Number

