Abstract

A star coloring of a graph $G$ is a proper vertex coloring (no two adjacent vertices of $G$ have the same color) such that every path of $G$ on four vertices, is not bicolored. The minimum number of colors needed to star color $G$ is called as star chromatic number and is denoted by $\chi_s(G)$. In this paper, we give the exact value of star chromatic number of middle, central and total graph of wheel graph families $W_n$.

References

- R. Arundhadhi & R. Sattanathan, 'acyclic coloring of Central graph of path on n-vertices and central graph of Fan graph Fm,n', International conference on Mathematics In Engineering and Business-2012.

**Index Terms**

Computer Science

Applied Mathematics

**Keywords**

Star Coloring  Star Chromatic Number  Middle Graph  Central Graph And Total Graph