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ON SUPER EDGE-ANTIMAGIC TOTAL LABELING OF SUBDIVIDED STARS[1]

Muhammad Javaid

Department of Mathematics
National University of Computer and
Emerging Sciences, Lahore Campus, Pakistan

e-mail: mjavaidmath@gmail.com
javaidmath@gmail.com

Abstract

In 1980, Enomoto *et al.* proposed the conjecture that every tree is a super $(a, 0)$-edge-antimagic total graph. In this paper, we give a partial support for the correctness of this conjecture by formulating some super (a, d)-edge-antimagic total labelings on a subclass of subdivided stars denoted by $T(n, n+1, 2n+1, 4n+2, n_5, n_6, \ldots, n_r)$ for different values of the edge-antimagic labeling parameter d, where $n \geq 3$ is odd, $n_m = 2^{m-4}(4n+1)+1$, $r \geq 5$ and $5 \leq m \leq r$.

Keywords: super (a, d)-EAT labeling, subdivision of star.

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