

Further Results on Odd Harmonious Labeling of Graphs

S. Phila^{1,*}, P. Jayanthi², Maged Z Youssef³, M. E. Abdel-Aal⁴

¹ Department of Mathematics, St. Xavier's College, Palayamkottai, Tirunelveli - 627002, Tamilnadu, India.

² Department of Mathematics, Govindammal Adtassar College for Women, Tiruchendur - 628 215, Tamil Nadu, India.

³ Department of Mathematics and Statistics, Imam Mohammad Ibn Saud Islamic University, Saudi Arabia, Department of Mathematics, Faculty of Science, Ain Shams University, Cairo, Egypt.

⁴ Department of Mathematics, Benha University, Benha 13518, Egypt.

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Abstract: Liang and Bai proposed the notion of odd harmonious labeling of a graph in 2009. Since then, numerous papers have explored this topic. This study adds some new results to the existing literature. First, we provide a sufficient condition for an Eulerian graph to be an odd harmonious graph, which enhances the result from 2014. Furthermore, we identify several new classes of graphs that exhibit odd harmonious properties.

Keywords: disjoint union of graphs; odd harmonious labeling; path union of graphs; splitting graph; subdivided shell flower graph; vertex union of graphs.

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1 Introduction

The concept of odd harmonious labeling of a graph was defined in 2009 by Liang and Bai [18] as follows: A graph G is said to be odd harmonious if there exists an injection $f : V(G) \rightarrow \{0, 1, 2, \dots, 2q - 1\}$ such that the induced function $f^* : E(G) \rightarrow \{1, 3, \dots, 2q - 1\}$ defined by $f^*(uv) = f(u) + f(v)$ is a bijection. If $f(V(G)) = \{0, 1, 2, \dots, q\}$ then f is called as strongly odd harmonious labeling and G is called as strongly odd harmonious graph. Motivated by this concept, several researchers have studied this topic and relevant results have been published in many journals and proceedings, among others. Our published results on odd harmonious labeling of graphs [5]-[17], [19] might definitely be useful to the interested researchers.

In this paper, we add further results on this labeling. Throughout the paper, we refer to the vertices and edges of the graph G by points and links respectively. We also introduce a new graph namely $D_2 \& Spl(G)$. To construct the graph, first find shadow graph $D_2(G)$ and then for the original graph G , find splitting graph $Spl(G)$. The combination of $D_2(G)$ and $Spl(G)$ gives a new graph $D_2 \& Spl(G)$. An example for the graph $D_2 \& Spl(P_5)$ is shown in Figure 1.

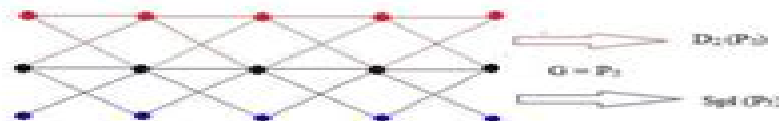


Fig. 1: $D_2 \& Spl(P_5)$

* Corresponding author e-mail: lavernjadia@gmail.com

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