

New parameters for studying graceful properties of graphs

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Dedicated to the memory of Professor Mirka Miller

In this paper, we introduce two kinds of new parameters for studying graceful properties of graphs. We also establish the relation among these parameters. Moreover, we provide the relation between super edge-magic labelings and graceful labelings of trees.

Keywords: consecutively super edge-magic labeling, super edge-magic labeling, graceful labeling, consecutively super edge-magic deficiency, super edge-magic deficiency, alpha-number, beta-number.

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