

GENERATION OF GRACEFUL TREES

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ABSTRACT

In this paper, a new family of trees is generated by combining the given trees, and it proves that the result tree T_1 is graceful and admits α - valuation. Further, by recursively attaching a given tree with the resultant, generates a bigger family of trees T_i for $i \geq 2$, and we prove that such trees are graceful and have α - valuation.

KEYWORDS: Trees, Recursive Attachment, Graceful Labeling, Graceful Trees, α - Valuation