

THE ECCENTRIC CONNECTIVITY INDEX OF BUCKET RECURSIVE TREES

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Abstract: If G is a connected graph with vertex set V , then the eccentric connectivity index of G , $\xi^c(G)$, is defined as $\sum_{v \in V(G)} deg(v)ecc(v)$ where $deg(v)$ is the degree of a vertex v and $ecc(v)$ is its eccentricity. In this paper we show some convergence in probability and an asymptotic normality based on this index in two classes of random bucket recursive trees.

Key words: Bucket recursive trees, eccentric connectivity index, convergence in probability, asymptotic normality.

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