

APPLICATIONS OF GRAPH THEORY IN LANDSCAPE ECOLOGY MODELS

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Abstract

In this paper, we apply graph theory for modeling landscapes, representing a wide range of regions in Maharashtra to develop a method that reduces naturally complex landscapes to a common graph model and to identify common and uncommon patterns in the configuration of patches, corridors and matrix. Connectivity is also analyzed using graph theory which is an effective approach for exploring landscape patterns.

Key Words : *Graphs, GIS, landscape ecology, satellite Images.*

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