

CO-TREE STOCHASTIC GRAPHS

M. V. KHAPARDE¹ AND V. PARAMESWARAN²

¹ Professor, Department of Statistics,
Rashtrasant Tukdoji Maharaj Nagapur University,
Nagpur, Maharashtra, India

² Deputy Director General,
National Sample Survey Office,
Ministry of Statistics and Programme Implementation,
Government of India, Pune, Maharashtra, India

Abstract

The Co-tree $C(T)$ of a spanning tree T in a connected graph G is the spanning subgraph of G containing exactly those lines of G which are not in T . A graph labeling concept on co-trees known as Vertex Co-tree Stochastic (VCTS) Graph has been defined in this paper. A number of results have been obtained while attempting the problem of characterization which are presented in this paper. It has been proved that almost no graph is a VCTS graph and determination of a graph to be VCTS is NP-Complete.

Key Words : *Co-tree, Spaning tree, Vertex Co-tree stochastic graph, Embedding of VCTS graph.*

AMS Subject Classification : 05C78.

© <http://www.ascent-journals.com>