Accession Number : AD0701309

Title : ON BOUNDS FOR COMPLEMENTARY TREES IN A GRAPH.

Descriptive Note : Technical rept.,

Corporate Author : STANFORD UNIV CALIF OPERATIONS RESEARCH HOUSE

Personal Author(s) : Adler ,Ilan

Report Date : DEC 1969

Pagination or Media Count : 13

Abstract : It was shown elsewhere by Dantzig that if there exits one complementary tree in the undirected network G(G epsilon eta(n)) then there exists at least two. The proof there is by means of an algorithm which finds a different complementary tree from a given one. It is shown in this paper that using an extended form of Dantzig's algorithm can lead to a stronger result: if there exists one complementary tree in G(G epsilon eta(n)) then there exists at least four. Also some examples are provided to establish an upper bound on the smallest number of complementary trees in a network G(G epsilon eta(n)) which has at least one complementary tree.

Descriptors : (*GRAPHICS, NETWORKS), ALGORITHMS, THEOREMS

Subject Categories : OPERATIONS RESEARCH

Distribution Statement : APPROVED FOR PUBLIC RELEASE