Abstract

This paper presents how routers can manage large amount of data packets as routers exchange information with each other to find the best possible route to a destination thus graphs represent a more general class of structures than sets, sequences, lattices and trees. Since on web heavy range of information is represented by a graph as in social networks so modelling a sophisticated network by statistical analysis requires efficiency in routing packets within an autonomous system hence this approach here focuses on how routers can upgrade their configuration to exactly route the frequently occurring data packets within a homogeneous network.

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**Index Terms**

Computer Science  
Algorithms

**Keywords**

Frequent item set mining  
statistical modeling of networks  
routing table  
autonomous system and graph representation.