

عنوان مقاله:

A CSA Method for Assigning Client to Servers in Online Social Networks

محل انتشار:

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خلاصه مقاله:

This paper deals with the problem of user-server assignment in online social network systems. Online social network applications such as Facebook, Twitter, or Instagram are built on an infrastructure of servers that enables them to communicate with each other. A key factor that determines the facility of communication between the users and the servers is the Expected Transmission Time (ETT). A smart user-server assignment can avoid the low quality links and improve the communication between nodes and also save the valuable communication resources. Unfortunately, finding the optimal assignment turns out to be a NP-hard problem. This paper proposes the use of a heuristic algorithm named Centralized Simulated Annealing (CSA) to get a good near optimum solution for this problem. Simulation results of this investigation show that using a relatively small number of iterations, this approach achieves a very good performance improvement. On the other hand, the average number of iterations needed to achieve the near optimal solution, will be slightly increased when the number of users in the network increase.

کلمات کلیدی:

,Online social networks, Client-server assignment, Centralized simulated, Annealing algorithm

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