FTMRS SOLAR

Users occupying base station sites

Overview

How many base stations are there in the Interent dataset?

The dataset, provided by Shanghai Telecom, contains more than 7.2 million records of accessing the Interent through 3,233 base stations from 9,481 mobile phones for six months. For example, the following figure shows the distribution of base stations. Each node denotes a base station in Shanghai, China.

Do base station sleeping strategies save energy in dense cellular networks?

Due to the rising concerns of energy consumption in wireless networks, base station (BS) sleeping strategies were introduced to save energy in low traffic scenarios. In this paper we analyse a weighted trade-off between energy consumption and user-perceived performance in dense cellular networks.

Why do we need additional base stations in case a?

In Case A, a new demand is created in each period in addition to the demand of previous periods. Hence, additional base stations (BSs) may be needed to satisfy the new demand.

Can BSS serve mobile users in a given geographical area?

The proposed optimization model for locating BSs to serve mobile users in a given geographical area is presented in Section 3. In Section 4, experimental results are provided for two scenarios that cover Cases A and B. Finally, concluding remarks with possible future extensions are provided in Section 5.

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