

## عنوان مقاله:

Passive defense in appropriate location of base stations in mobile communication networks

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## خلاصه مقاله:

Passive defense in appropriate location of base transceiver station in Tehran is the main subject of this article. According to the GSM network architecture and its components, BTS is the most vulnerable part of this network. Under investigating current circumstances of BSCs and BTSs in Tehran an optimization of the deployment of these stations are examined regardless of the passive defense and with considering this issue. In determining location of base transceiver stations in Tehran, according to different modes of sharing, a model is designed in which the number of stations is causatively reduced. In addition, temporary Base Transceiver Stations and their variants are presented. Finally, a comparison of the results of the previous researches and this study show the proposal plan is advanced in terms of beautifying the city, economical aspects and defensive schemes. RAN sharing is a kind of sharing in which operators share towers, antennas and Back Hall up to the connecting dots of telecommunication core of operators' network. This sharing has a particular importance both in terms of reducing the number of base transceiver stations and also reducing operators' costs. KEYWORDS: Passive defense, BTS, Investigation on the location, sharing sites

## کلمات کلیدی:

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