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Efficiency Of Wireless Networks Approximation

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Efficiency of Wireless Networks surveys results from a newly emerging line of research that targets algorithm analysis in the physical interference model. The primary focus is on wireless scheduling: Given a set of communication requests, arbitrarily distributed in space, how can these requests be scheduled efficiently?

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Assuming that the deployment of one sensor has one unit cost, we define utilization efficiency as network lifetime L divided by the number of deployed sensors N , i.e., $(5) \eta = L/N$. Utilization efficiency indicates the rate at which network lifetime L increases with the network size N . It captures the tradeoff between network lifetime and deployment cost.

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Efficient Deployment of Base Stations in Wireless ...

He, Energy efficient distributed connected dominating sets construction in wireless sensor networks, in Proceedings of the 2006 International Conference on Wireless Communication and Mobile Computing (IWCMC'06), July 3–6, Canada, 2006, pp. 797–802 Google Scholar

Energy Efficiency in Wireless Networks | SpringerLink

Approximating CSI. Dr Zhang and his team are developing the theory and applications of efficient approximations of Channel State Information (CSI) in Wi-Fi networks. CSI describes the state of a communication link from the transmitter to the receiver and enables the adaption of transmissions to various channel conditions.

Enhancing Wi-Fi communication with effective CSI ...

Home ICPS Proceedings SoICT '11 Efficient approximation of routing holes in wireless sensor networks. research-article . Efficient approximation of routing holes in wireless sensor networks. Share on. Authors: Nguyen Phi Le. Ha Noi University of Science and Technology, Ha Noi, Viet Nam.

Efficient approximation of routing holes in wireless ...

Abstract: Wireless sensor networks (WSNs) have been widely used in a plenty of applications. To achieve higher efficiency for data collection, WSNs are often partitioned into several disjointed clusters, each with a representative cluster head in charge of the data gathering and routing process. Such a partition is balanced and effective, if the distance between each node and its cluster head can be bounded within a constant number of hops, and any two cluster heads are connected.

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Energy efficient comparator for successive approximation ...

Computing energy efficient broadcast trees is one of the most prominent operations in wireless networks. For stations embedded in the Euclidean plane, the best analytic result known to date is a 6.33-approximation algorithm based on computing an Euclidean minimum spanning tree.