

Title: Base Station Coordination

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Abstract--In this paper, we study the performance of base station (BS) coordination in heterogeneous networks (HetNets) with cache-enabled and renewable energy-powered small cell BSs (SBSs).

One efficient technique to combat intercell interference is via exploiting coordination among multiple base stations, which is known as multicell processing or simply base station coordination.

In this paper, we presented a flow-based unified optimization framework for the joint optimization of resource allocation, user scheduling and user association under the optimal ON-OFF transmission ...

Base station coordination is an advanced variant of MIMO as a means of mitigating the inter-cell interference and hence improves spectral efficiency of cell border users where performance is ...

In an initial approach to this problem, we proposed a multi-objective model for selecting the cooperation scheme between base stations and an evolutionary algorithm that provides a set of ...

Coordination among base stations (BSs) is a powerful approach for mitigating inter-cell interference in cellular systems [1]. It has been shown that the sum spectral efficiency scales linearly with the signal ...

Control Unit: The controller is in charge of the operation of the whole base station. It controls the transmission power, frequency allocation, handovers ...

In some embodiments, relay stations in adjacent networks may be co-located, so that they can communicate with each other over a short high-speed link. In some embodiments this link may be...

In summary, with the proposed dispatching scheme in this study, through the coordination of each 5G BS and the economic dispatch of equipment in the network, the energy consumption and electricity ...

In this paper, we study the performance of base station (BS) coordination in heterogeneous networks



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(HetNets) with cache-enabled and renewable energy-powered small cell ...

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