

a base station that can administer power management. In this paper, we propose and evaluate a power control loop, similar to those commonly found in cellular CDMA networks, for ad-hoc wireless ...

Why Ad Hoc Networks ? Setting up of fixed access points and backbone infrastructure is not always viable

In our proposed protocol, namely, the Power-Aware Virtual Base Stations (PA-VBS) protocol, a mobile node is elected from a set of nominees to act as a base station within its zone based on its residual ...

In this example, Remcom used transceivers for the mobile phones and streamlined the process of setting up the mobile phones and base stations to simulate a mobile ad hoc network.

I. INTRODUCTION working infrastructure. Communication is maintained by the transmission of data packets over a common wireless channel. The absence of any fixed infrastructure, such as an array ...

Abstract In this paper, we propose a novel infrastructure formation scheme for wireless mobile ad hoc networks. The proposed architecture, namely, power-aware virtual base stations (PA-VBS), mimics ...

In our work, we investigate the problem of placing base stations in multi-hop hybrid networks. Since nodes extend the service area by themselves, conventional cellular approaches are not...

In this article, we propose an RIS-integrated base station (BS) by deploying an RIS sufficiently close to the base station antennas (BAs), within its radiative near-field range.

The product software module integrates the functions of base station communication, client communication, point-to-point bridge communication and MESH Ad-hoc network communication.

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