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Abstract
With the rapid advance in wireless communication technologies and boomling development of mobile communication systems, multimedia presentation has become more applicable. However, since Mobile Hosts (MHs) are free to move around a wireless cellular network, workloads among cells trend to be imbalanced, leading to higher call dropping probability (CDP) and call blocking probability (CBP). How to balance the workload among cells to provide better quality of service (QoS) has become an important issue to be addressed. In this paper, we propose a novel dynamic balancing cell loading and media quality (DBLQ) strategy to balance workloads and media qualities among cells. The DBLQ strategy dynamically hands over MHs to neighbor cells based on the workloads of cells. With well-balanced workloads of cells, a cell can have more available bandwidth to serve more MHs and provide better quality. Our simulation experiments show that DBLQ strategy experiences more balancing workloads among cells, better media quality, lower CBP and CDP, and better bandwidth utilization (BU) than other existing schemes.
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