Abstract

This paper presents an approach for improving the Quality of Service (QoS) of CDMA systems based on the proposed switch coding scheme at the encoding process of transmission and a bandwidth scheduling scheme for achieving high throughput services in multi-rate CDMA system. The paper presents a bandwidth scheduling scheme based on the available resources depending upon the demanded service bandwidth. To avoid the Multi-access Interference (MAI) due to simultaneous requests a code switching scheme is proposed. The QoS metrics were evaluated for the developed system and compared with the conventional approach.

References

- Chung-Tung Chou ,Kang G. Shin &quot;Analysis of Adaptive Bandwidth allocation in
wireless Networks with Multilevel Degradable Quality of Service”, IEEE transactions on Mobile computing, Vol. 3, No. 1, January-March 2004
Efficient Bandwidth Allocation with Dynamic Coding for Quality of Service in CDMA based Wireless Communication System


Index Terms

Computer Science

Wireless

Keywords

CDMA System  Switch Coding  Multi-access Interference  QoS Parameters  Throughput