Abstract

As the growing need for wireless communications is constantly increasing, the demand for better coverage, enhance user capacity, and higher transmission quality rises. To provide interference mitigation and enhance user capacity the smart antenna system is one of the promising technologies. This paper presents performance analysis of LMS (Least Mean Square) adaptive beamforming algorithm for smart antenna system. Use different spacing between array element, increase number of array elements and also use different array geometry i.e. linear array, circular array, and planar array. Simulation is done by using MATLAB software.

References

Performance Analysis of LMS Adaptive Beamforming Algorithm for Smart Antenna System


Index Terms

Computer Science

Communications

Keywords
Smart antenna, Adaptive beamforming, LMS