Abstract

Interference reduction is vital for being able to effectively communicate with mobile users. In order to provide line of sight communications and continual coverage to the remote users. One approach to increasing capacity and coverage zones for the servicing wireless station is to use smart antennas. Sophisticated adaptive beamforming techniques can be applied to point the array's beam in the desired look direction while simultaneously nulling out the interfering signal. This paper explains the beam formation by using Signum Data-LMS and compared the performance with LMS and LLMS algorithm.

References

- J. M. Mouhamadou and P. Vaudon, "Smart Antenna Array Patterns Synthesis:..."
New Algorithms for Beam Formation and Its Comparison


Index Terms

Computer Science

Algorithms

Keywords

Adaptive Array
Smart Antenna
Beamforming