Abstract

In this paper sample matrix inversion (SMI) algorithm is used to generate beam for a smart antenna. The capability of adaptive beam generation by SMI algorithm is investigated for linear and planar arrays. The accuracies of main beam toward user and null toward interferer, beam width and side lobe level with respect to the variation of block length are reported.

References

- Sarkar, T. K., Wicks, M. C., Salazar-Palma M. and Bonneau, R. J. 2003 Smart

Index Terms

Computer Science  Communication

Keywords

Smart antenna; side lobe level; SMI algorithm; linear antenna array; planar antenna array