Abstract

Spectrum sensing is the main aspect of Cognitive Radio. There are several spectrum sensing techniques but the idea of the Direction of Arrival of the signal when the signal is sensed is equally important. ESPRIT is a high-resolution signal parameter estimation technique based on the translational invariance structure of a sensor array. The ESPRIT algorithm is an attractive solution to many parameter estimation problems due to its low computational cost. The Estimation of DOA of three signals is investigated in this paper.

References

Direction of Arrival Estimation via ESPRIT Algorithm for Smart Antenna System


Index Terms

Computer Science

Algorithms

Keywords

Cognitive Radio  Direction of Arrival  Beam forming  Subarray  ESPRIT.