

عنوان مقاله:

Decision Node Based Spectrum Sensing in Multi Antenna Network

محل انتشار:

هشتمین کنفرانس ملی رادار و سامانه های مراقبتی ایران (سال: 1400)

تعداد صفحات اصل مقاله: 6

نویسندگان:

Ayaz Ghorbani - *Department of Electrical Engineering Amirkabir University Tehran, Iran*

Esmail Zarezadeh - *Department of Electrical Engineering Amirkabir University Tehran, Iran*

Mina Khodarahmi - *Department of Electrical Engineering Imam Khomeini International University Ghazvin, Iran*

خلاصه مقاله:

This paper will address sensor selection problem for spectrum sensing in cognitive radio network. The sensor's limited energy is an important issue which has attracted more attention in recent years. An energy efficient cooperative spectrum sensing will hereby be proposed based on joint sensing node and decision node based clustering. The proposed scheme is extracted based on convex optimization framework. Simulation results show that using decision node clustering with cooperative multiple antenna sensing achieves a significant energy saving in comparison with .single antenna sensor network and the network without any decision node

کلمات کلیدی:

Energy Efficiency, Multiple Antenna Sensors, Detection Probability, Cooperative Spectrum Sensing, Decision Node

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1360857>

