Abstract

Cognitive radio ad-hoc networks (CRAHNs) is used to solve the current problems of inefficiency in the spectrum allocation and used to deploy highly reconfigurable and self organizing wireless networks. Cognitive radio represents an efficient technology since it allows exploiting the unused radio resources. In this context, spectrum sensing plays very important role in cognitive radio communication technology. Here we considered simplified energy detection technique for spectrum sensing. Simulation results show the channel selection along with the signal to noise ratio utilized for message towards destination node by the efficient energy detection method.

References

- Simon Haykin, "Cognitive radio: Brain-empowered wireless communications,"

- Han Han, Qihui Wu, "Spectrum Sensing Via Energy Detector In Low SNR", 978-1-4244-6542-2/$26. 00 © 2010.
- Q. T. Zhang, Fellow, IEEE, "Advanced Detection Techniques for Cognitive Radio", IEEE Communications Society subject matter experts for publication in the IEEE...
Efficient Energy Detection Technique in Cognitive Radio Ad-hoc Network


Index Terms

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Keywords

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