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Abstract

In this paper, describe the development of an optimal number of nodes in cooperation using energy detection method in a cognitive radio network(CRN).

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Refer

- FCC, "ET Docket No. 02-135, Spectrum policy task force (SPTF) Report"; "Federal Communications Commission";, Nov. 15-2002.
- Tang. H , "Some physical layer issues of wide-band cognitive radio systems";, in Proc. IEEE Int. Symposium on new frontiers in dynamic system access networks, Baltimore, Maryland, U. S. A, Nov. 2004, pp. 151-159.
- Ian F. Akyildiz, Won-Yeol Lee, Mehmet C. Vuran. , "Next generation/dynamic spectrum access/cognitive radio wireless networks: A survey";, Computer Networks, 50 (2006), pp. 2127–2159.
- Tefvic U and Huseyin Arslan, "A Survey of Spectrum Sensing Algorithm for CR Applications";, IEEE Communications surveys and tutorials, vol: 11, pp. 116-130, 2009.
- K. Ben Letaief and W. Zhang, "Cooperative communications for cognitive radio networks," in IEEE proceedings, May 2009, pp. 878–893.
- Ying-Chang Liang and Yonghong Zeng, SensingThroughput Tradeoff for Cognitive Radio Networks";, IEEE Transactions on Wireless Communications, vol: 8, pp: 1326 -1337, Dec-2009.
- Quan, Z. , Cui, A. , Poor, H. : "Optimal multiband joint detection for spectrum sensing in cognitive radio networks";, IEEE Trans. Signal Process. , 2009, 57, (3), pp. 1128–1140.
- D. Duan, L. Yang, and C. Jose, "Cooperative diversity of spectrum sensing for cognitive radio systems";, IEEE transactions of signal processing, vol. 4, no. 6, pp. 3218-3227, june-2010.
- Sesham Srinu, Samrat L. Sabat, FPGA implementation of optimum distributed sensing for cognitive radio network, in proceedings of second World Congress on Information and Communication Technologies(WICT), 2012, pp. 897-902.
- S. Chaudhari, J. Lunden, V. Koivunen, and H. Poor, "Cooperative Sensing with imperfect reporting channels: Hard decisions or soft decisions IEEE Transactions on Signal Processing, vol. 60, no. 1, pp. 18 –28, jan. 2012.

Computer Science

Index Terms

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Keywords

Cognitive Radio Networks; Cooperative Spectrum Sensing; Energy Detection.

