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Abstract Details

Title: Overview on Cognitive Radio Network Review

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Abstract: Cognitive Radio (CR) it refers to detect the unused spectrum and sharing it without harmful interference with other users. an its intelligent wireless communication system and considered to be promising technology of the next generation communication networks that is aware of its surrounding bandwidth availability and adapt, it can capture the best available spectrum to meet user communication requirements (spectrum management) by sharing unused spectrum depending on parameters like signal strength, dimension, node speed and availability of unused spectrum. And it can change transmitter parameters based on interaction with the environment in which it operates. In this paper we presented general overview on cognitive radio (CR) and we gave a brief note about history of CR and architecture concept, and then pointed out some key research challenges. Finally we gave comparative study of various methodologies.

Keywords: CRN, PUs, SUs, Spectrum Sensing, Spectrum Management.