

# Optimisation of spectrum utilisation for mobile communication systems

**De Montfort University - An overview of spectrum sharing techniques in cognitive radio communication system**



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## Optimization of spectrum utilization in cognitive radio system

In Proceedings of IEEE international advance computing conference IACC-2013 , India, February 22—23, pp.

## An overview of spectrum sharing techniques in cognitive radio communication system

IEEE Journal on Selected Areas in Communications, 26 1 , 83—94. IEEE Communications Magazine, 49 8 , 128—135.

## An overview of spectrum sharing techniques in cognitive radio communication system

The CBP protocol is useful in many scenarios, and a possible situation is illustrated in Figure 14. IEEE Transactions on Information Theory, 53 2 , 471—487. Haptic interactions will be enabled through Tactile Internet.

## Spectrum Usage

The decision stipulates that the designation of the band 17. IEEE Transactions on Vehicular Technology, 59 4 , 1858—1864. In the previous wireless generations 1G-to-5G , wireless protocols are designed for some specific applications.

## Spectrum Utilization

At the same time, 3GPP issued R13 for 5G standards. The vehicle needs to interact with another vehicle, with pedestrians, and many other sensors installed in the vehicle. In Proceedings of international symposium on intelligent signal processing and communications systems ISPACS , Naha, Japan, November 12—15, 2013, pp.

## Spectrum Resource

The valid channel measurement time in a region could be limited by high vehicle speeds. For example, the theoretical PAPR for 802. This architecture offers reconfiguration of the two PA paths to achieve superior PA PBO efficiency enhancement, robust Doherty operation against load variations, and flexible efficiency and linearity optimization.

### **The shift to 6G communications: vision and requirements**

IEE Reviews, 51 2005 5, 34—37. The antenna H- and V-polarization are orthogonal polarization states that have large isolation.

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