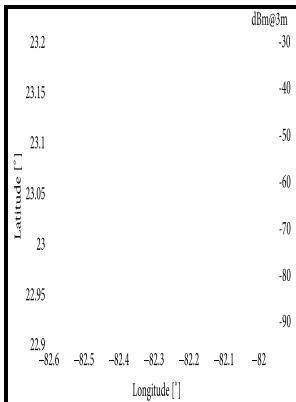


Optimisation of spectrum utilisation for mobile communication systems

De Montfort University - Optimization of spectrum utilization in cognitive radio system



Description: -

- Optimisation of spectrum utilisation for mobile communication systems
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Notes: Thesis (Ph.D.) - De Montfort University, Leicester 1999.
This edition was published in 1999



Filesize: 48.910 MB

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

Spectrum Usage

The 400 MHz band has the advantage of good propagation characteristics, allowing reduction of the number of sites necessary to provide the radio coverage.

The shift to 6G communications: vision and requirements

IEEE Communications Magazine, 45 5 , 88—94. Optimal multi-channel cooperative sensing in cognitive radio networks. Optimal spectrum sensing framework for cognitive radio networks.

An overview of spectrum sharing techniques in cognitive radio communication system

Thus, its complexity depends heavily on the allocation algorithm used.

Spectrum Resource

Some prominent use cases and applications of 6G communication systems are presented in Sect. Spectrum sensing in cognitive radio networks: requirements, challenges and design trade-offs. Essentially a provider wants a specific number of users per access point.

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