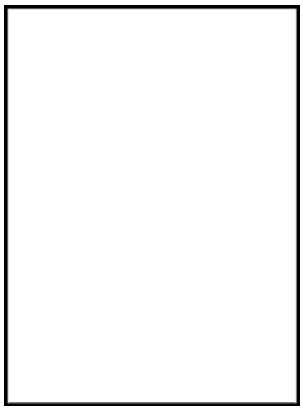
Optimisation of spectrum utilisation for mobile communication systems

De Montfort University - The shift to 6G communications: vision and requirements



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The shift to 6G communications: vision and requirements

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An overview of spectrum sharing techniques in cognitive radio communication system

The following aspects are being analyzed within the CoRaSat project Figure 10. Progress Electromagnetic Research C, 26, 153—165. Backofff algorithm in cognitive radio MAC-protocol for throughput enhancement.

Optimization of spectrum utilization in cognitive radio system

Network intelligence will be an essential component of 6G networks and the network will take actions dynamically according to the environmental conditions. Physical Communication, 4 1 , 40—62.

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The communication between these devices may be through peer-to-peer or cooperative multi-hop relay manner. Lower infrastructure costs are obtained through the ability to have policies change when conditions are warranted. Transmission consists of two slots, a downlink slot and an uplink slot.

The shift to 6G communications: vision and requirements

Frequency, time and spatial domains are typically considered, but also polarisation and directional information can be included to provide more detailed information about spectrum opportunities. Distributed sequential access MAC protocol for single hop wireless networks. IEEE Communications Letters, 15 8 , 845—847.

Optimization of spectrum utilization in cognitive radio system

Different data rates are supported and are reported to lie in the range of 300 bps—50 kbps.

Optimization of spectrum utilization in cognitive radio system

Upon successful demonstration, the CoRaSat approach aims at maximizing resource exploitation to open new business perspectives and potentially lower transmission costs, without creating any harmful interference to those satellite or terrestrial systems entitled to use the same portion of spectrum on an incumbent basis, which will thus remain practically unaware of the CoRaSat system presence.

An overview of spectrum sharing techniques in cognitive radio communication system

Journal of Electronics and Telecommunications Research Institute, 30 3 , 335—364. The frequency offset between the PDM signal and LO laser is set within the mm-wave band to generate the mm-wave signal. Although EMF is not covered in 3GPP standards, all base stations including AAS base stations need to comply with applicable standards and regulations related to human exposure to RF EMF.

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