



All



ADVANCED SEARCH

Conferences > 2018 4th International Confer...

Radio resource access occupancy measurements and analysis

Publisher: IEEE

Cite This

PDF

H. Srinivasa Murthy ; Sudarson Jena All Authors



25 Full Text Views

Alerts

Manage Content Alerts Add to Citation Alerts

Abstract

Document Sections

- I. Introduction
- » II Review of white space
- III Approach's to TVWS
- IV Spectrum allocation and assignment overview
- IV Simulation and results

Show Full Outline

- Authors
- Figures
- References
- Keywords
- Metrics
- More Like This



Download PDF

Abstract:A dynamic access of radio resources which available in free spectrum total unused frequency by primary user in television whitespace available in India then it estimated ... **View more**

Metadata

Abstract:

A dynamic access of radio resources which available in free spectrum total unused frequency by primary user in television whitespace available in India then it estimated large with rest advanced globe the regulations without interference to the channel with efficient backhaul architecture, will provide broadband connectivity to semi-urban robust affordable, rural users efficient utilizes of TV whitespaces. Destructive obstruction from unlicensed to licensed system the digital television DTV tolerates obstruction along the targeted value and distribution spectrum method. Work begins addressing with radio obstruction analysis applying SEAMCAT Study represents reliable detection exploits the unique way Digital Terrestrial channels are deployed in different areas and problem of hidden node probability of DTT PU. Spectrum access which adopts the geolocation database is proposed frequency bands on location vacant bands which archives and formalized both bandwidth and throughput gains by whitespace the maximum capacity of cognitive radio system.

Published in: 2018 4th International Conference on Applied and Theoretical Computing and Communication Technology (ICATccT)

Date of Conference: 06-08 September 2018

INSPEC Accession Number: 19379722

Date Added to IEEE Xplore: 20 February 2020

DOI: 10.1109/iCATccT44854.2018.9001990

ISBN Information:

Electronic ISBN:978-1-5386-7706-3

Print on Demand(PoD) ISBN:978-1-5386-7707-0

Publisher: IEEE

Conference Location: Mangalore, India

 Contents

I. Introduction

The wireless overall tele endorser with tele density in India increased from approximate 92 percent at the end of April 2017 the urban wireless tele density slightly increased 168 at the May 2017 and the rural wireless tele density increased from 57 during the same period share of urban and rural wireless endorser in total number of wireless 43 percent end of May 2017. It observed that absolutely that the rural wireless resource access is obscure puzzle in India In a setback to Microsoft, the Department of Telecom has decided not to allocate 470-582 MHz spectrum band for commercial deployment of TV White Space (TVWS) technology. Most villages are largely introductory market with great potential and many threats in radio resource access in the rural areas revenue moderate portion of absolute credit cardinal and activity expense and efficiency amount get poor by loss of reliable power supply other geographical convenience argument present problem. Recent studies on the utilization of different frequency bands have shown that in most frequency bands, large portions of the wireless spectrum are heavily under-utilized [7], [8], [9]. Among the under-utilized portions of the spectrum, of particular interest are the Low and High Very High Frequency (VHF) bands (54–88 MHz, 174–216 MHz), Low Ultra High Frequency (UHF) (470–698 MHz), specifically owing to their superior propagation characteristics. The mitigate loss of radio resource in village areas. This perception raised to answer the challenges that Television ultra-high frequency or Television unused frequency space to solve indicated backhaul problem via Tested achieved data set of geographical whitespace database in television ultra-high frequency expected at cover in 2020 all corner of rural areas, a endorser approximate 700 million with TWO Mbps explained of radio band and endorser of more than 300 million present with 250GB/m and generate 100 Exabyte of data per month more than expected global traffic present.

Authors	▼
Figures	▼
References	▼
Keywords	▼
Metrics	▼

More Like This

Approach of Robust Resource Allocation in Cognitive Radio Network With Spectrum Leasing
 IEEE Transactions on Green Communications and Networking
 Published: 2020

Outage Probability Performance of Cognitive Radio Enabled UAV Relaying
 2020 28th Signal Processing and Communications Applications Conference (SIU)
 Published: 2020

Show More

IEEE Personal Account

CHANGE
USERNAME/PASSWORD

Purchase Details

PAYMENT OPTIONS
VIEW PURCHASED
DOCUMENTS


Profile Information

COMMUNICATIONS
PREFERENCES
PROFESSION AND
EDUCATION
TECHNICAL INTERESTS

Need Help?

US & CANADA: +1 800 678
4333
WORLDWIDE: +1 732 981
0060
CONTACT & SUPPORT

Follow

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [IEEE Ethics Reporting](#)  | [Sitemap](#) | [IEEE Privacy Policy](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2023 IEEE - All rights reserved.

IEEE Account

- » [Change Username/Password](#)
- » [Update Address](#)

Purchase Details

- » [Payment Options](#)
- » [Order History](#)
- » [View Purchased Documents](#)

Profile Information

- » [Communications Preferences](#)
- » [Profession and Education](#)
- » [Technical Interests](#)

Need Help?

- » **US & Canada:** +1 800 678 4333
- » **Worldwide:** +1 732 981 0060

» [Contact & Support](#)

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [Sitemap](#) | [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2023 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.