

Introducing novel FDD and FDM in MC-CDMA to enhance performance

Publisher: IEEE

Cite This

PDF

<< Results

B. Natarajan ; C.R. Nassar All Authors

3 Paper Citations

1 Patent Citation

43 Full Text Views

Alerts

Manage Content Alerts

Add to Citation Alerts

Abstract

Authors

References

Citations

Keywords

Metrics

More Like This

Down

PDF

Abstract:This paper presents a method of efficiently incorporating frequency division duplex (FDD) and frequency division multiplexing (FDM) into MC-CDMA systems to exploit freque... **View more**

► **Metadata**

Abstract:
This paper presents a method of efficiently incorporating frequency division duplex (FDD) and frequency division multiplexing (FDM) into MC-CDMA systems to exploit frequency diversity and reduce multiple access interference (MAI). The approach used in the novel FDD/MC-CDMA is to break the total available bandwidth into subbands and interleave the subbands used for the downlink and uplink. It is shown that this technique significantly improves the performance relative to an MC-CDMA system employing a traditional FDD scheme where the spectrum is divided into a single uplink block and a single downlink block. Furthermore, FDM is introduced in the novel FDD scheme to reduce MAI in MC-CDMA (without any loss in the capacity of the overall system).

Published in: RAWCON 2000. 2000 IEEE Radio and Wireless Conference (Cat. No.00EX404)

Date of Conference: 13-13 September 2000 **INSPEC Accession Number:** 6845805

Date Added to IEEE Xplore: 06 August 2002 **DOI:** 10.1109/RAWCON.2000.881841

Publisher: IEEE

Print ISBN:0-7803-6267-5

More Like This

Code selection for low complexity receivers in multi-carrier code division multiple access systems

1997 IEEE MTT-S Symposium on Technologies for Wireless Applications Digest

Published: 1997

Successive interference cancellation for direct sequence code division multiple access

Proceedings of MILCOM '94

Published: 1994

Show More

Authors	▼
References	▼
Citations	▼
Keywords	▼
Metrics	▼

IEEE Personal Account

CHANGE
USERNAME/PASSWORD

Purchase Details

PAYMENT OPTIONS
VIEW PURCHASED
DOCUMENTS

Profile Information

COMMUNICATIONS
PREFERENCES
PROFESSION AND EDUCATION
TECHNICAL INTERESTS

|

|

|

|

|

|

About IEEE *Xplore* | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | IEEE Ethics Reporting [🔗](#) | 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 2022 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 2022 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.