Institutional Sign In

BROWSE

MY SETTINGS

GET HELP

WHAT CAN I ACCESS?

SUBSCRIBE

Browse Conference Publications > Vehicular Technology Conferen ... ?

MAI cancellation with commutation signaling

Full Text
Sign-In or Purchase**Need Full-Text?**Request a free trial
to IEEE Xplore for
your organization.

FREE TRIAL

2

Author(s)

da Silva, M.M. ; Inst. de Telecommun., Inst. Superior Tecnico, Lisbon, Portugal ; Correia, A.

Abstract

Authors

References

Cited By

Keywords

Metrics

Similar

This paper deals with PIC-parallel interference cancellation with and without the ISI cancellation system-commutation signaling (CS), in a deep Rayleigh fading environment, time and frequency selective, assuming the spreading sequences and the features of the channels of the several interfering users is known. It is proved that PIC lead to good profits especially when the CS technique is used together, because these systems subtract the MAI estimated for each user. These estimates improve when the ISI is cancelled, since the MAI estimated depends upon the estimate of the transmitted symbols by each interfering user. Additionally, it considers the blind detection (without knowledge of spreading sequences nor the features of the channels of the interfering users) with a noise whitening matched filter (NWMF) that combats the MAI through the whitening of the interfering power spectrum (following the single-user philosophy)

Published in:

Vehicular Technology Conference Proceedings, 2000. VTC 2000-Spring Tokyo. 2000 IEEE 51st (Volume:2)

Date of Conference:

2000

Page(s):

1090 - 1094 vol.2

Meeting Date :

15 May 2000-18 May 2000

ISSN :

1090-3038

Print ISBN:

0-7803-5718-3

INSPEC Accession Number:

6684048

Conference Location :

Tokyo

DOI:

10.1109/VETECS.2000.851293

Publisher:

IEEE

**Build
and Run
Simulation
Apps with
COMSOL
5.0** SEE HOW

Personal Sign In | Create Account

IEEE Account

- » Change Username/Password
- » Update Address

Purchase Details

- » Payment Options
- » Order History
- » Access 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 | Terms of Use | Nondiscrimination Policy | Sitemap | Privacy & Opting Out of Cookies

A not-for-profit organization, IEEE is the world's largest professional association for the advancement of technology.
© Copyright 2015 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.