



Document details

< Back to results | < Previous 2 of 2

Export Download Print E-mail Save to PDF Add to List More... >

[Full Text](#) View at Publisher

Electronics Letters
Volume 36, Issue 13, 22 June 2000, Pages 1145-1147

Adaptive framed pseudo-Bayesian Aloha algorithm with priorities (Article)

Habaebi, M.H., Ali, B.M.

Dept. of Comp. and Commun. Eng., University Putra Malaysia, Sri Serdang, 43300 Selangor, Malaysia

Abstract

[View references \(5\)](#)

A new wireless framed pseudo-Bayesian Aloha algorithm with adaptive priorities, for wireless ATM reservation-based TDMA MAC protocols, is presented. The throughput, in the presence of Rayleigh fading, shadowing and capture, is calculated and the waiting time of the different priority traffic classes is estimated using simulation models.

SciVal Topic Prominence

Topic: Medium access control | Radio | Permission probability

Prominence percentile: 10.122

Indexed keywords

Engineering
controlled terms:

Asynchronous transfer mode Communication channels (information theory)
Computer simulation Congestion control (communication) Mathematical models
Rayleigh fading Telecommunication traffic Time division multiple access
Wireless telecommunication systems

Engineering
uncontrolled terms:

Pseudo Bayesian Aloha algorithm Wireless channel

Engineering main
heading:

Adaptive algorithms

Metrics [View all metrics >](#)

2 Citations in Scopus
20th percentile

0.65 Field-Weighted
Citation Impact



PlumX Metrics

Usage, Captures, Mentions,
Social Media and Citations
beyond Scopus.

Cited by 2 documents

Improving the performance of
the FPBA algorithm using
random transmitter power levels

Habaebi, M.H. , Ali, B.M.
(2001) *IEE Proceedings:
Communications*

The FPBA algorithm with
controlled capture ICC2001

Habaebi, M.H. , Ali, B.M.
(2001) *IEEE International
Conference on Communications*

[View all 2 citing documents](#)

Inform me when this document
is cited in Scopus:

[Set citation alert >](#)

[Set citation feed >](#)

Related documents

Improving the performance of
the FPBA algorithm using
random transmitter power levels

Habaebi, M.H. , Ali, B.M.
(2001) *IEE Proceedings:
Communications*

ISSN: 00135194
CODEN: ELLA
Source Type: Journal
Original language: English

DOI: 10.1049/el:20000845
Document Type: Article
Publisher: IEE, Stevenage, United Kingdom

[References \(5\)](#)

[View in search results format >](#)

□ 1 Frigon, J.F., Leung, V.C.M.
A pseudo-Bayesian algorithm with mixed priorities for wireless ATM
(1998) *ACM Blatzer*
PIMRC Accepted also in "Wireless Information Networks", Oct.

Wireless Adaptive Framed
Pseudo-Bayesian Aloha (AFPBA)
Algorithm with Priorities
Habaebi, M.H. , Ali, B.M. ,
Mukerjee, M.R.
(2001) *International Journal of
Wireless Information Networks*

□ 2 Frigon, J.F., Leung, V.C.M.
A pseudo-Bayesian algorithm with mixed priorities for wireless ATM
(1999) *ACM Blatzer*
'Wireless Information Networks', October

Slotted ALOHA for High-Capacity
Voice Cellular Communications
Zorzi, M. , Pupolin, S.
(1994) *IEEE Transactions on
Vehicular Technology*

□ 3 Zorzi, M., Rao, R.R.
Capture and Retransmission Control in Mobile Radio

(1994) *IEEE Journal on Selected Areas in Communications*, 12 (8), pp. 1289-1298. Cited 200 times.
doi: 10.1109/49.329345

View all related documents based
on references

Find more related documents in
Scopus based on:

Authors > Keywords >

[View at Publisher](#)

□ 4 Kwak, K.S., Rao, R.R.
Controlled ALOHA with Geometric Capture Probabilities

(1990) *IEEE Transactions on Automatic Control*, 35 (11), pp. 1270-1274. Cited 11 times.
doi: 10.1109/9.59802

[View at Publisher](#)

□ 5 Hajek, B., Van Loon, T.
Decentralized Dynamic Control of a Multiaccess Broadcast Channel

(1982) *IEEE Transactions on Automatic Control*, 27 (3), pp. 559-569. Cited 153 times.
doi: 10.1109/TAC.1982.1102978

[View at Publisher](#)

🔍 Habaebi, M.H.; Univ Putra Malaysia, Malaysia
© Copyright 2004 Elsevier Science B.V., Amsterdam. All rights reserved.

[< Back to results](#) | [< Previous](#) 2 of 2

[^ Top of page](#)

About Scopus

[What is Scopus](#)
[Content coverage](#)
[Scopus blog](#)
[Scopus API](#)
[Privacy matters](#)

Language

[日本語に切り替える](#)
[切换到简体中文](#)
[切换到繁體中文](#)
[Русский язык](#)

Customer Service

[Help](#)
[Contact us](#)

ELSEVIER

[Terms and conditions](#) ↗ [Privacy policy](#) ↗

Copyright © Elsevier B.V. ↗. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies.

RELX