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

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### Abstract

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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.

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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

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Pseudo Bayesian Aloha algorithm Wireless channel

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References (5)

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□ 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

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□ 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

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□ 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

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