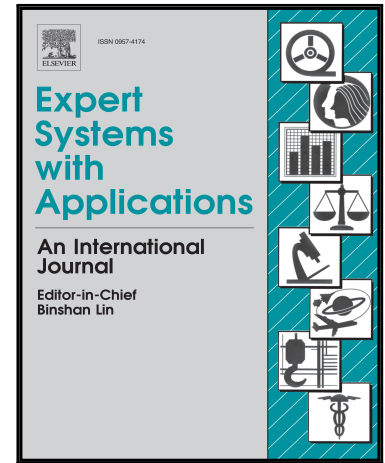


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Overload control of massive random access for machine-type communications

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Highlights

- We show that random access retransmissions can lead to performance degradation.
- A Markov model is proposed to evaluate the performance of LTE random access.
- There is an optimal number of retransmissions for massive random access.
- Random access resources are separated into two subsets for MTC overload control.
- Conventional and proposed schemes can be used adaptively depending on traffic load.

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