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- home
- introduction
- approved abstracts
- extended papers
- participants
- organizing committee
- search
- register
- sign-in
- venue
- sponsors
- contact us

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TRAFFIC POLICING IN AN ATM NETWORK USING LEARNING AUTOMATA

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Different approaches have been suggested for Traffic policing in an ATM network which majors are windowing algorithm and Leaky Bucket(LB). Windowing algorithms do well in packet networks but are unsuitable for high speed networks such as ATM.

In this article a new group of traffic policing method is suggested which at each moment improves the performance of policy by deliberating source attitudes or changing different parameters of leaky bucket. This group of policies deliberates sources attitude or efficiency of using sources by learning automata, and then improves the efficiency.

Results of simulation shows that new approaches are able to reduce the percentage of cell loss and finally improve the performance of using sources , this group of methods are suitable for explosive traffic sources which there is no precise representation of their traffic properties or some kinds of traffic sources which estimating their properties is complex.

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