

Fiat, Amos; Karp, Richard M.; Luby, Michael; McGeoch, Lyle A.; Sleator, Daniel D.; Young, Neal E.

Competitive paging algorithms. (English) Zbl 0753.68018

J. Algorithms 12, No. 4, 685-699 (1991).

The authors present a set of on-line algorithms for the paging problem, namely: the marking algorithm, the algorithm EATR, and algorithms that are competitive against several others. The marking algorithm can be interpreted as a randomized form of LRU. The algorithm EATR is a randomized algorithm for the uniform 2-server problem. The algorithms that are competitive against several others involve the combining of several on-line algorithms. The performance of these algorithms is within of a factor of two of the performance of both the LRU algorithm and the FIFO algorithm.

Reviewer: J.Martyna (Kraków)

MSC:

68M20 Performance evaluation, queueing, and scheduling in the context of computer systems

68N25 Theory of operating systems

68W10 Parallel algorithms in computer science

Cited in **1** Review
Cited in **64** Documents

Keywords:

paging algorithms; scheduling

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