Quantitative
Modeling
In
Parallel
Systems

Polling Systems

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Abstract A polling system is a queueing system in which several queues are attended by a single server. Spurred by various important applications, the field of polling systems in going through a period of feverish activity. The first part of this paper surveys some of the main developments. The second part generalizes the theory of polling systems to the case in which the customer arrival process depends on the position of the server, and to the case in which customers travel from queue to queue.

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