

Throughput-Centric Routing Algorithm Design

D. Towles, W. Dally, and S. Boyd

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- [obliv_route.pdf](#)

The increasing application space of interconnection networks now encompasses several applications, such as packet routing and I/O interconnect, where the throughput of a routing algorithm, not just its locality, becomes an important performance metric. We show that the problem of designing oblivious routing algorithms that have high worst-case or average-case throughput can be cast as a linear program. Globally optimal solutions to these optimization problems can be efficiently found, yielding provably good oblivious routing algorithms.

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P. Boyd

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