

# QoS and Fairness Constrained Convex Optimization of Resource Allocation for Wireless Cellular and Ad Hoc Networks

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- [qos\\_fairness.pdf](#)

For wireless cellular and ad hoc networks with QoS constraints, we propose a suite of problem formulations that allocate network resources to optimize SIR, maximize throughput, and minimize delay. The distinguishing characteristics of these resource allocation formulations is that, by using convex optimization, they accomodate a variety of realistic QoS and fairness constraints.

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