**Title**:

A Game Theoretic Approach to New York City Congestion Pricing

**Authors**:

Nathan Ondracek, Ali Dastjerdi

**Abstract**:

NYC is trying to tackle its problem of traffic using congestion pricing. This paper proposes using the game theoretic model of congestion games to model and understand an optimal pricing strategy for NYC congestion. Our model suggests that congestions pricing does not necessarily need to be onerous enough to discourage drivers from using cars to reduce traffic, but rather can incentivize traffic routes that are socially optimal, reducing overall traffic.