
Managing Airport Congestion

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Motivation

- Airports are increasingly congested.
 - Airlines – Cost may be \$6 Billion or more per year
 - Passengers – Perhaps an equal amount
 - Extreme congestion: LGA (2000) & ORD (2004)
- Capacity is underutilized. With better resource management, more travelers would be accommodated with current infrastructure.

Research Overview

- Part I: Problem with existing framework – Congestion pricing & auctions
 - Losers? Management? Theory?
- Part II: A new theoretical approach – Variable slot auction
 - Use the market to solve the problem
- Part III: A practical first step – Equitable taxes and fees
 - Finding a better system for all stakeholders

