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Summary Lecture #1 • Airline schedules (Aircraft, crew, passengers) are optimized leading to: $\frac{3}{4}$ Little slacks (idle time) $\frac{3}{4}$ Schedule dependencies $\frac{3}{4}$ Delay chain effects • Causes of schedule disruptions $\frac{3}{4}$ Shortages of airline resources $\frac{3}{4}$ Shortages of airport resources • Complex airline resource regulations $\frac{3}{4}$ Aircraft maintenance $\frac{3}{4}$ Pilots

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1.1 Motivation for Research In the United States air transportation, there are two entities that affect daily operations, the Federal Aviation Administration (FAA) of the Department of Transportation (DOT) and the airlines. The FAA provides Air Traffic Control at all major airports, and throughout the National Air Space.

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