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## **Airline Fleet Planning Models Mit**

Airline Fleet

Composition • Fleet  
composition is critical  
long-term strategic  
decision for an airline.

- Fleet is the total  
number of aircraft that  
an airline operates, as  
well as the specific  
aircraft types that

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comprise the total fleet. - Each aircraft type has different technical performance characteristics e.g. capacity to carry payload over a maximum flight

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MIT ICAT Integrated  
Airline Planning Models

- As described, current practice is to perform

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scheduling, pricing and  
RM sequentially. •  
Integrated models  
would jointly optimize  
schedules, capacity,  
prices, and seat  
inventories: - Better  
feedback from pricing  
and RM systems can  
affect optimal choice of  
schedule and aircraft

**Introduction to the  
Airline Planning ... -  
MIT**

**OpenCourseWare**

Description: Explores a

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variety of models and optimization techniques for the solution of airline schedule planning problems. Schedule design, fleet assignment, aircraft maintenance routing, crew scheduling, passenger mix, and other topics are covered. Recent models and algorithms integrating some of the schedule planning problems are



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## **Airline Schedule Planning - MIT**

In this paper, the authors attempt to develop a robust, comprehensive, three-stage airline fleet planning model to help airlines in their decisions regarding fleet size and mix. The main contribution of this paper is that the model allows planners to decide both fleet

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mix and fleet size jointly in a relatively prompt and robust way, whereas previous studies tend to address the two decisions separately.

## **Three-stage airline fleet planning model - ScienceDirect**

Airline Fleet Planning Models : 17: AMG Work Session - Presentation of Round 4 Input Strategies - Results: Impacts of Fleet

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Changes :18: ... MIT

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## **Airline Management - MIT**

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Explores a variety of models and optimization techniques for the solution of airline schedule planning and

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operations problems. Schedule design, fleet assignment, aircraft maintenance routing, crew scheduling, passenger mix, and other topics are covered. Recent models and algorithms addressing issues of model integration, robustness, and operations recovery are introduced.

## **Airline Schedule Planning - MIT**

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A two-stage fleet planning model is formulated in which the first stage selects the individual operating route that requires slot purchase for network expansions while the second stage, in the form of probabilistic dynamic programming model, determines the quantity and type of aircraft (with the corresponding service

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frequency) to meet the demand profitably.

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## **Fleet Planning Decision-Making: Two-Stage Optimization ...**

Airline Schedule  
Development 1.  
Schedule Development  
Process - Airline supply  
terminology -  
Sequential approach to  
schedule planning 2.  
Frequency Planning -  
Market share /  
frequency share 3.

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#### Timetable

Development - Aircraft rotations and timetable constraints 4. Fleet

Assignment  
Optimization

## **Airline Schedule Development - MIT OpenCourseWare**

This course provides an overview of airline management decision processes with a focus on economic issues and their relationship to operations planning

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models and decision support tools. It emphasizes the application of economic models of demand, pricing, costs, and supply to airline markets and networks, and it examines industry practice and emerging methods for fleet planning, route network ...

**Airline Management  
| Aeronautics and  
Astronautics | MIT ...**



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- Route planning requires a detailed evaluation approach: - Demand, cost and revenue forecasts required for specific route, perhaps for multiple years into the future - Assumed market share of total demand based on models of passenger choice of different airline and schedule options - Depends to a large extent on

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presence and expected  
response of

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**Route Planning and  
Evaluation - MIT  
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Aircraft Evaluation &  
Fleet Planning. A  
thorough

understanding of  
aircraft performance,  
aircraft economics and  
the lease/finance  
sector that is essential  
to the fleet planning  
decision, we can run  
customized fleet

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evaluations. The core revenue/profit contributor for any airline is delivered by operating its aircraft fleet.

## **Aircraft Evaluation & Fleet Planning - Avia Solutions**

In scheduled passenger air transportation, airline profitability is critically influenced by the airline's ability to construct flight schedules containing

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flights at desirable times in profitable markets. In this dissertation, we study two elements of the schedule generation process, namely, schedule design and fleet assignment.

## **Airline fleet assignment and schedule design - DSpace@MIT Home**

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FP-3 Maximum Income,  
Market Share 61 3.2

FPD-3 Decomposition

68 3.3 Example - Tech

Airways, FPD-3 71 3.4

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Dispatching Models 74

4.1 D-1 Minimum

Social Cost 77 4.2 D-2

Least Passenger Delay

for  $n$  Dispatches

## **SCHEDULING AND ROUTING MODELS FOR AIRLINE**

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## 2. MODEL FOR APPROXIMATE FLEET MIX

The main assumption in the model for approximate fleet mix determination is that all aircraft can be classified into two categories - small and medium size aircraft. A small aircraft is an aircraft with capacity of 50 to 100 seats, while a medium size aircraft has the capacity of 101 to 200 seats.

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## **TWO-STAGE AIRLINE FLEET PLANNING MODEL**

AN AIRLINE FLEET PLANNING MODEL. An extended fleet planning model is presented as a linear program which solves for maximum income for the airline system given future passenger demand on the route structure, a forecast of competitive frequencies, and a

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determination of  
market share for a  
given frequency.

## **AN AIRLINE FLEET PLANNING MODEL - TRID**

Fleet Planning and  
airline route  
evaluation. 2

Introduction • Most  
important Long term  
decision impacting  
airline planning and  
operations. • Has  
significant impact on  
the financial position of



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the airline, its operating costs and specifically the ability to service routes profitably.

### **Fleet Planning and airline route evaluation**

We focus our attention on the steps of the airline schedule planning process involving schedule design and fleet assignment. Airline schedule design

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involves determining when and where to offer flights such that profits are maximized, and fleet assignment involves assigning aircraft types to flight legs to maximize revenue and minimize

...

**Airline Schedule**

**Planning: Integrated Models and ...**

This thesis investigates the Airline Fleet

Assignment models

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which have been designed during the past 10 years within MIT's Flight Transportation Laboratory. Emphasis is placed on developing an interactive computer system, called IFA/1, which simplifies the use of fleet assignment models and improves the insertion or modification of necessary data.

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**IFA/1 : an interactive  
airline fleet**

**assignment model -  
MIT**

Industry shocks have repeatedly been a time of change for the U.S. airline industry. The 9/11 attacks precipitated a decade of industry bankruptcies, the 2008 recession was a catalyst for the mega-mergers that formed the carriers we know today, and now the

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novel coronavirus pandemic is the latest crisis to hit the industry — with consequences as yet unknown.

### **How US airline fleets might change due to the coronavirus**

Ryanair announced after stock markets closed on Thursday that it is planning to sell €400 million of shares to strengthen its balance sheet amid the Covid-19 crisis, and

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