

# ***Airline Operations and Delay Management***

Insights from Airline Economics,  
Networks and Strategic  
Schedule Planning



***CHENG-LUNG WU***

# Airline Operations And Delay Management

**Air Traffic Control Association. Fall  
Conference**



## **Airline Operations And Delay Management:**

**Airline Operations and Delay Management** Cheng-Lung Wu,2010 Airline Operations and Delay Management fills a gap within the area of airline schedule planning by addressing the close relationships between network development economic driving forces schedule demands and operational complexity The pursuit of robust airline scheduling and reliable airline operations is discussed in light of the future trends of airline scheduling and technology applications in airline operations

**Airline Operations and Delay Management** Cheng-Lung Wu,2016-03-23 Airline Operations and Delay Management fills a gap within the area of airline schedule planning by addressing the close relationships between network development economic driving forces schedule demands and operational complexity The pursuit of robust airline scheduling and reliable airline operations is discussed in light of the future trends of airline scheduling and technology applications in airline operations The book extensively explores the subject from the perspectives of airline economics airline network development and airline scheduling practices Many operational issues and problems are the inevitable consequences of airline network development and scheduling philosophy so a wide perspective is essential to address airline operations in their proper context The influence of airline network development on schedule planning and operations driven by economic forces and relaxed regulations is thoroughly examined for different types of operations in aviation such as network carriers and low cost carriers The advantages and disadvantages of running different networks and schedules are discussed and illustrated with real airline examples In addition this book provides readers with various mathematical models for solving different issues in airline operations and delay management Airline Operations and Delay Management is ideal for senior undergraduate students as an introductory book on airline operations The more advanced materials included in this book regarding modeling airline operations are suitable for postgraduate students advanced readers and professionals interested in modeling and solving airline operational problems

*Airline Operations and Delay Management* Cheng-Lung Wu,2010

Aviation Delays and Consumer Issues United States. Congress. House. Committee on Transportation and Infrastructure. Subcommittee on Aviation,2008

Increasing Airline Operational Control in a Constrained Air Traffic System Jennifer Rausch Goodhart,2000

Airport Surface Delays and Causes: A Preliminary Analysis ,1997

Airport Planning & Management Alexander T. Wells,Seth B. Young,2004 This meticulously researched text by a noted aviation management expert is so definitive that it is used as a course book in the American Association of Airport Executives accreditation program Now completely updated it features coverage of the latest industry statistics trends and legislation Also new in this revision expanded material on deregulation and passenger facility charges coverage of technological developments such as nav aids and procedures and discussions of changes in such airport operations as security noise monitoring and runway maintenance

Research and Technology 1999 ,2000

A New Approach for Disruption Management in Airline

Operations Control António J. M. Castro,Ana Paula Rocha,Eugénio Oliveira,2014-06-19 Most of the research efforts dealing

with airline scheduling have been done on off line plan optimization However nowadays with the increasingly complex and huge traffic at airports the real challenge is how to react to unexpected events that may cause plan disruptions leading to flight delays Moreover these disruptive events usually affect at least three different dimensions of the situation the aircraft assigned to the flight the crew assignment and often forgotten the passengers journey and satisfaction This book includes answers to this challenge and proposes the use of the Multi agent System paradigm to rapidly compose a multi faceted solution to the disruptive event taking into consideration possible preferences of those three key aspects of the problem Negotiation protocols taking place between agents that are experts in solving the different problem dimensions combination of different utility functions and not less important the inclusion of the human in the automatic decision making loop make MASDIMA the system described in this book well suited for real life plan disruption management applications *Airline Schedule Planning and Operations* Lavanya Marla,2010 We study strategic and operational measures of improving airline system performance and reducing delays for aircraft crew and passengers As a strategic approach we study robust optimization models which capture possible future operational uncertainties at the planning stage in order to generate solutions that when implemented are less likely to be disrupted or incur lower costs of recovery when disrupted We complement strategic measures with operational measures of managing delays and disruptions by integrating two areas of airline operations thus far separate disruption management and flight planning We study different classes of models to generate robust airline scheduling solutions In particular we study two general classes of robust models i extreme value robust optimization based and ii chance constrained probability based and one tailored model which uses domain knowledge to guide the solution process We focus on the aircraft routing problem a step of the airline scheduling process We first show how the general models can be applied to the aircraft routing problem by incorporating domain knowledge To overcome limitations of solution tractability and solution performance we present budget based extensions to the general model classes called the Delta model and the Extended Chance Constrained programming model Our models enhance tractability by reducing the need to iterate and re solve the models and generate solutions that are consistently robust compared to the basic models according to our performance metrics In addition tailored approaches to robustness can be expressed as special cases of these generalizable models The extended models and insights gleaned apply not only to the aircraft routing model but also to the broad class of large scale network based resource allocation We show how our results generalize to resource allocation problems in other domains by applying these models to pharmaceutical supply chain and corporate portfolio applications in collaboration with IBM s Zurich Research Laboratory Through empirical studies we show that the effectiveness of a robust approach for an application is dependent on the interaction between i the robust approach ii the data instance and iii the decision maker s and stakeholders metrics We characterize the effectiveness of the extreme value models and probabilistic models based on the underlying data distributions and performance metrics We also show how

knowledge of the underlying data distributions can indicate ways of tailoring model parameters to generate more robust solutions according to the specified performance metrics As an operational approach towards managing airline delays we integrate flight planning with disruption management We focus on two aspects of flight planning i flight speed changes and ii intentional flight departure holds or delays with the goal of optimizing the trade off between fuel costs and passenger delay costs We provide an overview of the state of the practice via dialogue with multiple airlines and show how greater flexibility in disruption management is possible through integration We present models for aircraft and passenger recovery combined with flight planning and models for approximate aircraft and passenger recovery combined with flight planning Our computational experiments on data provided by a European airline show that decrease in passenger disruptions on the order of 47 2% 53 3% can be obtained using our approaches We also discuss the relative benefits of the two mechanisms studied that of flight speed changes and that of intentionally holding flight departures and show significant synergies in applying these mechanisms We also show that as more information about delays and disruptions in the system is captured in our models further cost savings and reductions in passenger delays are obtained

**Management and Analysis of Service Operations** Jim Browne,1984      **Aviation Capacity Enhancement Plan** ,1998      **Annual Air Traffic Control Association Fall Conference Proceedings** Air Traffic Control Association. Fall Conference,2005      **Transportation Science** ,2006 Publishes original contributions and surveys associated with all modes of transportation including planning design economic operational and social      *A Collection of Technical Papers* ,1997      **Interfaces** ,2001      **The Conference Proceedings of the 2003 Air Transport Research Society (ATRS) World Conference** WCTR Society. Air Transport Research Society. Conference,2003      **Air Transport World** ,1985      **Proceedings of the ... American Control Conference** ,1998      **Datafair 73 Conference Papers** British Computer Society,1973

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