# Discrete Choice Modelling and Air Travel Demand

Theory and Applications

LAURIE A. GARROW

# **Discrete Choice Modelling And Air Travel Demand**

Nigel Halpern, Anne Graham

#### **Discrete Choice Modelling And Air Travel Demand:**

Discrete Choice Modelling and Air Travel Demand Professor Laurie A Garrow, 2012-10-01 In recent years airline practitioners and academics have started to explore new ways to model airline passenger demand using discrete choice methods This book provides an introduction to discrete choice models and uses extensive examples to illustrate how these models have been used in the airline industry. These examples span network planning revenue management and pricing applications Numerous examples of fundamental logit modeling concepts are covered in the text including probability calculations value of time calculations elasticity calculations nested and non nested likelihood ratio tests etc The core chapters of the book are written at a level appropriate for airline practitioners and graduate students with operations research or travel demand modeling backgrounds Given the majority of discrete choice modeling advancements in transportation evolved from urban travel demand studies the introduction first orients readers from different backgrounds by highlighting major distinctions between aviation and urban travel demand studies This is followed by an in depth treatment of two of the most common discrete choice models namely the multinomial and nested logit models More advanced discrete choice models are covered including mixed logit models and generalized extreme value models that belong to the generalized nested logit class and or the network generalized extreme value class An emphasis is placed on highlighting open research questions associated with these models that will be of particular interest to operations research students Practical modeling issues related to data and estimation software are also addressed and an extensive modeling exercise focused on the interpretation and application of statistical tests used to guide the selection of a preferred model specification is included the modeling exercise uses itinerary choice data from a major airline The text concludes with a discussion of on going customer modeling research in aviation Discrete Choice Modelling and Air Travel Demand is enriched by a comprehensive set of technical appendices that will be of particular interest to advanced students of discrete choice modeling theory The appendices also include detailed proofs of the multinomial and nested logit models and derivations of measures used to represent competition among alternatives namely correlation direct elasticities and cross elasticities **Discrete Choice** Modelling and Air Travel Demand Laurie A. Garrow, 2010 The core chapters of the book are written at a level appropriate for airline practitioners and graduate students with operations research or travel demand modeling backgrounds Given the majority of discrete choice modeling advancements in transportation evolved from urban travel demand studies the introduction first orients readers from different backgrounds by highlighting major distinctions between aviation and urban travel demand studies This is followed by an in depth treatment of two of the most common discrete choice models namely the multinomial and nested logit models More advanced discrete choice models are covered including mixed logit models and generalized extreme value models that belong to the generalized nested logit class and or the network generalized extreme value class An emphasis is placed on highlighting open research questions associated with these models that will be of

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Routledge Companion to Air Transport Management Nigel Halpern, Anne Graham, 2018-01-31 The Routledge Companion to Air Transport Management Provides a comprehensive up to date review of air transport management research and literature This exciting new handbook provides a unique repository of current knowledge and critical debate with an international focus considering both developed and emerging markets and covering key sectors of the air transport industry. The companion consists of 25 chapters that are written by 39 leading researchers scholars and industry experts based at universities research institutes and air transport companies and organisations in 12 different countries in Africa Asia Pacific Europe and North America to provide a definitive trustworthy resource. The international team of contributors have proven experience of research and publication in their specialist areas and contribute to this companion by drawing upon research published mainly in academic industry and government sources. This seminal companion is a vital resource for researchers scholars and students of air transport management. It is organised into three parts current state of the air transport sectors. Part I application of management disciplines to airlines and airports Part II and key selected themes.

Quantitative Problem Solving Methods in the Airline Industry Cynthia Barnhart, Barry Smith, 2011-12-22 This book reviews Operations Research theory applications and practice in seven major areas of airline planning and operations In each area a team of academic and industry experts provides an overview of the business and technical landscape a view of current best practices a summary of open research questions and suggestions for relevant future research There are several common themes in current airline Operations Research efforts First is a growing focus on the customer in terms of 1 what they want 2 what they are willing to pay for services and 3 how they are impacted by planning marketing and operational decisions Second as algorithms improve and computing power increases the scope of modeling applications expands often re integrating processes that had been broken into smaller parts in order to solve them in the past Finally there is a growing awareness of the uncertainty in many airline planning and operational processes and decisions Airlines now recognize the need to develop robust solutions that effectively cover many possible outcomes not just the best case blue sky scenario Individual chapters cover Customer Modeling methodologies including current and emerging applications Airline Planning and Schedule Development with a look at many remaining open research questions Revenue Management including a view of current business and technical landscapes as well as suggested areas for future research Airline Distribution a comprehensive overview of this newly emerging area Crew Management Information Systems including a review of recent algorithmic advances as well as the development of information systems that facilitate the integration of crew management modeling with airline planning and operations Airline Operations with consideration of recent advances and successes in solving the airline operations problem Air Traffic Flow Management including the modeling environment and opportunities for both Air Traffic Flow Management and the airlines Computational Science and Its Applications - ICCSA 2025

Workshops Osvaldo Gervasi, Beniamino Murgante, Chiara Garau, Yeliz Karaca, Maria Noelia Faginas Lago, Francesco Scorza, Ana Cristina Braga, 2025-07-05 The fourteen volume set LNCS 15886 15899 constitutes the papers of several workshops which were held in conjunction with the 25th International Conference on Computational Science and Its Applications ICCSA 2025 held in Istanbul Turkey during June 30 July 3 2025 The 362 full papers 37 short papers and 2 PHD showcase included in this book were carefully reviewed and selected from 1043 submissions In addition the conference consisted of 58 workshops focusing on very topical issues of importance to science technology and society from new mathematical approaches for solving complex computational systems to information and knowledge in the Internet of Things new statistical and optimization methods several Artificial Intelligence approaches sustainability issues smart cities and related technologies Modeling Applications in the Airline Industry Ahmed Abdelghany, Khaled Abdelghany, 2016-04-15 Modeling Applications in the Airline Industry explains the different functions and tactics performed by airlines during their planning and operation phases Each function receives a full explanation of the challenges it brings and a solution methodology is presented supported by numerical illustrative examples wherever possible The book also highlights the main limitations of current practice and provides a brief description of future work related to each function The authors have filtered the rich literature of airline management to include only the research that has actually been adopted by the airlines giving a genuinely accurate representation of real airline management and its continuing development of solution methodologies The book consists of 20 chapters divided into 4 sections Demand Modeling and Forecasting Scheduling of Resources Revenue Management Irregular Operations Management The book will be a valuable source or a handbook for individuals seeking a career in airline management Written by experts with significant working experience within the industry it offers readers insights to the real practice of operations modelling In particular the book makes accessible the complexities of the key airline functions and explains the interrelation between them The **Economics of International Airline Transport** James Peoples, 2014-07-09 The Economics of International Airline Transport provides a complete analysis of the economics of international air transportation by presenting research on the costs borne by air transportation companies due to pollution regulation in Europe Australia and New Zealand

Technologies and Applications for Big Data Value Edward Curry, Sören Auer, Arne J. Berre, Andreas Metzger, Maria S. Perez, Sonja Zillner, 2022-04-28 This open access book explores cutting edge solutions and best practices for big data and data driven AI applications for the data driven economy. It provides the reader with a basis for understanding how technical issues can be overcome to offer real world solutions to major industrial areas. The book starts with an introductory chapter that provides an overview of the book by positioning the following chapters in terms of their contributions to technology frameworks which are key elements of the Big Data Value Public Private Partnership and the upcoming Partnership on AI Data and Robotics. The remainder of the book is then arranged in two parts.

horizontal contributions of technologies and methods that enable data value chains to be applied in any sector The second part Processes and Applications details experience reports and lessons from using big data and data driven approaches in processes and applications Its chapters are co authored with industry experts and cover domains including health law finance retail manufacturing mobility and smart cities Contributions emanate from the Big Data Value Public Private Partnership and the Big Data Value Association which have acted as the European data community's nucleus to bring together businesses with leading researchers to harness the value of data to benefit society business science and industry The book is of interest to two primary audiences first undergraduate and postgraduate students and researchers in various fields including big data data science data engineering and machine learning and AI Second practitioners and industry experts engaged in data driven systems software design and deployment projects who are interested in employing these advanced methods to address real world problems Strategies for Sustainable Air Services Development Chrystal Zhang, Kareem Yarde, 2024-12-02 Routes are arguably the most valuable of airline assets Although widely practised in the industry the process of developing air connectivity has drawn very limited academic research However this book fills in this knowledge gap Strategies for Sustainable Air Services Development unwraps the process of decision making in establishing airlinks from the airline's perspective as well as the roles of various stakeholders including airports tourism authorities tourist destination organizations local investment agencies and regional development agencies Developed from rigorous academic research and analysis of a myriad of data sources that include interviews surveys and workshops with industry practitioners it presents a framework of best practices that will serve as a toolkit and central resource point for industry professionals to initiate and establish airlinks to benefit air travellers and society at large The first book of its kind it presents the most comprehensive assessment available to date of all the intricacies involved in developing airlinks. The book will equip senior and middle managers practitioners policymakers and students with the practical skills and tools required to develop and design airlinks for the benefit of all stakeholders Encyclopedia of Transportation Mark Garrett, 2014-08-13 Viewing transportation through the lens of current social economic and policy aspects this four volume reference work explores the topic of transportation across multiple disciplines within the social sciences and related areas including geography public policy business and economics The book s articles all written by experts in the field seek to answer such questions as What has been the legacy not just economically but politically and socially as well of President Eisenhower's modern interstate highway system in America With that system and the infrastructure that supports it now in a state of decline and decay what s the best path for the future at a time of enormous fiscal constraints Should California politicians plunge ahead with plans for a high speed rail that every expert says despite the allure will go largely unused and will never pay back the massive investment while at this very moment potholes go unfilled all across the state What path is best for emerging countries to keep pace with dramatic economic growth for their part What are the social and financial costs of gridlock in our cities

Features Approximately 675 signed articles authored by prominent scholars are arranged in A to Z fashion and conclude with Further Readings and cross references A Chronology helps readers put individual events into historical context a Reader s Guide organizes entries by broad topical or thematic areas a detailed index helps users guickly locate entries of most immediate interest and a Resource Guide provides a list of journals books and associations and their websites While articles were written to avoid jargon as much as possible a Glossary provides quick definitions of technical terms To ensure full well rounded coverage of the field the General Editor with expertise in urban planning public policy and the environment worked alongside a Consulting Editor with a background in Civil Engineering The index Reader's Guide and cross references combine for thorough search and browse capabilities in the electronic edition Available in both print and electronic formats Encyclopedia of Transportation is an ideal reference for libraries and those who want to explore the issues that surround transportation in the United States and around the world From Consumer Experience to Affective Loyalty: Challenges and Prospects in the Psychology of Consumer Behavior 3.0 María Pilar Martínez-Ruiz, Mónica Gómez-Suárez, Ana Isabel Jiménez-Zarco, Alicia Izquierdo-Yusta, 2018-02-19 This research topic for Frontiers in Psychology highlights some of the more relevant changes that have conditioned consumer behavior in recent years among these the paradigm shift in marketing is worth emphasizing Today the market and the companies are implementing Marketing 4 0 This new marketing approach modifies both the business rules and the channels by changing the way to dialogue interact and relation with consumers The present Research Topic brings together 30 studies by 76 authors who analyzed the relevance of consumer behavior changes under this new paradigm using different theoretical and methodological frameworks These different papers mainly constituting original research examine a variety of sub topics including online and mobile environments value co creation internal marketing strategies and diverse industries and product markets Given this broad selection of papers we encourage readers to draw their own conclusions about the complex phenomena of consumer behavior Our hope is that these different perspectives will cover various gaps in the field and prompt discussion among the audience of Frontiers in Psychology

Choice Modelling Stephane Hess, Andrew Daly, 2010-01-15 Contains a selection of the best theoretical and applied papers from the inaugural International Choice Modelling Conference The conference was organised by the Institute for Transport Studies at the University of Leeds and held in Harrogate North Yorkshire on 30 March to 1 April 2009 Business in the 21st Century Claudia Nelly Berrones-Flemmig, Francoise Contreras, Utz Dornberger, 2022-10-31 Business in the 21st Century provides a valuable framework for scholars managers leaders and business stakeholders to help navigate the incorporation of SDGs into the business world shape strategy improve practices and create a better business future Transport Economics Tae Hoon Oum, 2005-11-01 First Published in 1997 This book contains a set of readings which convey clearly the fundamental concepts theory and methodologies essential for the teaching and study of transport economics The papers were carefully selected by seven prominent and experienced professors of transport economics for their usefulness in teaching As such most

of the twenty seven papers included in the book deal with timeless and fundamental subjects in transport economics and have been evaluated by many instructors as being effective papers for teaching The book is organised into six parts

Transport Demand Transport Cost Pricing Infrastructure Regulation and Market Structure and Project Evaluation

Airport Competition Peter Forsyth, David Gillen, Jurgen Muller, Hans-Martin Niemeier, 2016-03-23 The break up of BAA and the blocked takeover of Bratislava airport by the competing Vienna airport have brought the issue of airport competition to the top of the agenda for air transport policy in Europe Airport Competition reviews the current state of the debate and asks whether airport competition is strong enough to effectively limit market power It provides evidence on how travellers chose an airport thereby altering its competitive position and on how airports compete in different regions and markets The book also discusses the main policy implications of mergers and subsidies

ITF Round Tables Competitive Interaction between Airports, Airlines and High-Speed Rail International Transport Forum, 2009-11-04 This round table proceedings examines whether and how airports should be regulated to contain market power It determines which approaches are likely to work best and also assesses strategies for managing greenhouse gas emissions including the alternative of high speed rail

Regional Airports M. N. Postorino,2011 Regional Airports have become increasingly important elements of the air network system both as feeders of hub and spoke services and as origins or destination of point to point services Congestion at the main hubs and increasing demand for air transportation both for passengers and freight services necessitates revaluation of the overall air systems with regional airports taking an ever expanding role Optimisation of air transportation systems within the framework of other forms of transport plays an important part in the present quest for sustainability Congestion nowadays is not only associated with countries such as the USA and those in the EU but also a variety of other countries with fast developing economies where there is a strong increase in air transportation demand The revolution of the existing airport system including regional airports requires the developing of new optimisation tools which can simulate the whole process and produce optimal solutions These models are also essential to predict future demands and in particular the role that regional airports will play The siting of new airports involves taking into consideration a variety of environmental ecological social and economic factors which transcend the problem of transportation resources optimisation itself Regional Airports can be a powerful driving force behind the development of an area and conversely can result in major problems if they are wrongly sited

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