

CONCURRENT SESSION 1 (THURSDAY, JUNE 27, 14:00 – 15:30)

SESSION 1-A: AVIATION AND ECONOMY – ROOM 1

Chair: Keith Mason, Cranfield University, UK

- 9 Wei Lu, Xingwu Zheng *Civil Aviation University of China, China*
An Analysis of Air Cargo Imbalances in China Bilateral Air Markets: A Trade Structure Perspective
- 139 Elien Van De Vijver, Ben Derudder, Frank Witlox *Ghent University, Belgium*
Disentangling Cause and Effect in the Co-Evolution of Air Passenger Traffic and Trade: The Case of Pacific Asia, 1980-2010
- 326 Carlos Ordas Criado, Denis Bolduc, Christophe-Peguy Choub-Faha *Universite Laval, Canada*
Passenger Traffic, Regional Employment and Economic Growth: A Causality Analysis
- 98 Wenjie Wu *University of Glasgow, UK*
Economic Impact of Airline Network Development: Empirical Evidence from China Based on Micro-geographical Data

SESSION 1-B: AVIATION AND ENVIRONMENTS I – ROOM 3

Chair: Sveinn Gudmundsson, Toulouse Business School, France

- 105 Dimitrios J. Dimitriou, Asimina I. Voskaki, Callum S. Thomas *Democritus University of Thrace, Greece*
Airports Environmental Impact Mitigation: Assessment of 15 International Airports
- 47 Stefan Baumeister *University of Jyväskylä, Finland*
Competitive Advantage Through Environmental Responsibility?: A Case Study of Finnair
- 228 Mattia Grampella, Fausto Tassan, Giovanni Zambon *University of Milan Bicocca, Italy*
Gianmaria Martini, Davide Scotti *University of Bergamo, Italy*
The Environmental Costs of Airports' Aviation Activities: a Panel Data Econometric Analysis of Italian Airports
- 150 Yashar Araghi, Maarten Kroesen, Eric Molin, Bert van Wee *Delft University of Technology, The Netherlands*
Heterogeneity in Passenger Attitudes and Preferences for Airline Environmental Policies

SESSION 1-C: AIRPORT PLANNING AND MANAGEMENT I – ROOM 5

Chair: Yeong Heok Lee, Korea Aerospace University, Korea

- 4 Helena Pova, Anderson R. Correia *Technological Institute of Aeronautics, Brazil*
Prioritization of Alternative Locations for New Airports Through a Multi-Criteria Method
- 23 Paolo Beria, Antonio Laurino *Politecnico di Milano, Italy*
Air Transport and Events in a Big City: Relations and Implications for Milan's Airports
- 248 Lúcia Piedade, Vítor Coelho, J.M.G. Marques *Universidade Lusofona de Humanidades e Tecnologias, Portugal*
Implementation of Apron Management at Lisbon Airport Conceptual Procedure Using a Variable Geometry Principle for Runway 17/35

SESSION 1-D: MERGERS AND ALLIANCES I – ROOM 42

Chair: Martin Dresner - University of Maryland, the United States

- 141 M. Lenart, K. Mason, A. Foster *Cranfield University, UK*
Mergers and Acquisitions of Low Cost Carriers: Possible Scenarios for Consolidation in Europe
- 177 Tobias Huld *University of Munster, Germany*
Consolidation in the European Airline Market: The Road to Profitability
- 270 Kostas Iatrou *Air Transport News, Greece*
Mauro Oretti *SkyTeam, Netherlands*
Leonardo Corbo *Luiss Guido Carli University, Italy*
Dimitra Apatsidou *King's College, UK*
Nikolaos Schoinochoritis *Loughbrough University, UK*
Airline Choices for the Future: The Way Forward
- 186 Darren Ellis *University of New South Wales, Australia*
Global Airline Alliances: Developing a Delphi Study to Investigate Future Prospects

SESSION 1-E: AIRLINE OPERATION – ROOM 54

Chair: Joel Shon, Tainan University of Technology, Taiwan

- 27 Daniel Sailler *Aéroports de Paris, France*
How to Measure Aircraft Type Capacity? An Innocent Question with Big Consequences
- 12 Lay Eng Teoh, Hooi Ling Khoo *Universiti Tunku Abdul Rahman, Malaysia*
An Environmentally Sustainable Fleet Management Model Under Uncertainty
- 44 Vitaly S. Guzhva, Tamilla Curtis, Vladislav Borodulin *Embry-Riddle Aeronautical University, USA*
Market Analysis for Small and Mid-Size Commercial Turbo-prop Aircraft
- 194 Slavica Dozic, Milica Kalic *University of Belgrade, Serbia*
Selection of Aircraft Type by Using Even Swaps Method

SESSION 1-F: LOW COST CARRIERS I – ROOM 4

Chair: Anming Zhang - University of British Columbia, Canada

- 91 Klemens Klein, Sascha Albers *University of Cologne, Germany*
Robert Malina *Massachusetts Institute of Technology, USA*
European Low Fare Airlines' FDI-Based Market Entry : An Empirical Analysis
- 15 Tomoki Ishikura *Tokyo Metropolitan University, Japan*
Impacts of LCC Entry in Japans' Domestic Market
- 76 Andrea Salanti, Paolo Malighetti, Stefano Paleari *University of Bergamo, Italy*
Renato Redondi *University of Brescia, Italy*
Entry Determinants in EU Regions by Low Cost and Traditional Carriers
- 304 Seock-Jin Hong *Bordeaux Management School, France*
Fancois Vellas *University of Toulouse, France*
Prospects of Low Cost Carriers and Their Influence on the Industry: Korean Case Study

SESSION 1-G: AVIATION SAFETY I – ROOM 22

Chair: Raymon Kaduck, Canadian Transportation Agency, Canada

- 160 D. E. Pitfield *Loughborough University, UK*
Modelling the Location and Consequences of Aircraft Accidents
- 167 Alex Y.L. Lu *Kainan University, Taiwan*
Cheng-Hua Yang *National Kaohsiung University of Hospitality and Tourism, Taiwan*
The Correlation Between Ground Proximity Warning System and Flight Safety
- 244 Hamed Sheikhpour, Shahab Hassanpour *Tarrahan Parseh Transportation Institute, Iran*
A New Look on Near Airport Aircraft Accident Risk
- 200 Sehyun Tak, Donghoun Lee, Yoonjin Yoon *Korea Advanced Institute of Science and Technology, Korea*
The Study of Occurrence Categories and Accident-Related Events Based on the Accident Reports of the Republic of Korea

SESSION 1-H: AIR TRAFFIC CONTROL AND MANAGEMENT I – ROOM 2

Chair: Brent Bowen, Purdue University, USA

- 83 Caitlin Surakitbanharn, *Purdue University, USA, Keio University, Japan*
Steven Landry *Purdue University, USA*
Nobuaki Minato *Keio University, Japan*
Measuring Intensity Control in Automated Separation Assurance Safety and Function Allocation in NextGen
- 103 Lucy Budd, Melanie Kirchhofer *Loughborough University, UK*
Using Data Derived from ADS-B (Automatic Dependent Surveillance-broadcast) Radar Boxes to Understand the Effects of Convective Weather Activity on Air traffic Flows - Findings from the UK
- 339 Bijan Vasigh *Embry Riddle Aeronautical University, USA*
Mahmoud Saffarzadeh *Tarbiat Modares University, Iran*
Seyed Ramtin Bagheri *Fooman Islamic Azad University, Iran*
Comparison of Multilateration System (MLAT) with Secondary Surveillance System (SSR) Case Study: SDG, CQD And IIL Airports
- 316 Yakubu Ibrahim, Peter Higgins, Peter Bruce *Swinburne University of Technology, Australia*
Development and Evaluation of Collision Avoidance Display for Supporting Pilots' Self-Separation in a Free Flight Environment

SESSION 1-I: CONSUMER PROTECTION – ROOM 55

Chair: Paul Hooper, University of New South Wales, Australia

- 57 Hideki Fukui *Ehime University, Japan*
Koki Nagata *University of Maryland, USA*
Flight Cancellation as a Reaction to the Tarmac Delay Rule: An Unintended Consequence of Enhanced Passenger Protection
- 263 Blaise Waguespack, Tamilla Curtis *Embry-Riddle Aeronautical University, USA*
Ancillary Revenue and Price Fairness: An Exploratory Study Pre & Post Flight
- 72 Yi Hsin Lin, Li Wen Low *Asia University, Taiwan*
From Brand Experience to Brand Loyalty: An Empirical Research on Compare with Different Airline Alliance

CONCURRENT SESSION 2 (THURSDAY, JUNE 27, 16:00 – 17:30)

SESSION 2-A: AVIATION AND TOURISM – ROOM 1

Chair: Peter Forsyth, Monash University, Australia

- 317 Jocelyne Napoli *University of Paul Sabatier, France*
Air Transport and Cultural Tourism and Information Technology: Android Apps in the Midi-Pyrenees Region
- 312 Kazuyuki Takada *Tokyo Denki University, Japan*
Makoto Fujiu *University of Tokyo, Japan*
Overview of the Transition of Airports of Entry in Japan
- 184 Tay T.R. Koo, Wen-Chun Tseng, Cheng-Lung Wu *University of New South Wales, Australia*
Jin-Woo Park *Korea Aerospace University, Korea*
The Effect of Inbound Itinerary Availability on Regional Dispersal: A Case of the Dispersal of Korean Visitors in Australia
- 106 Dimitrios J. Dimitriou, John C. Mourmouris, *Democritus University of Thrace, Greece*
Maria F. Sartzetaki
Estimation of Airport Economic Impact in the Sector of Tourism
- 225 Taizo Hayashi *Institute for Transport Policy Studies, Japan*
A Study on the Impact of Globalization of Haneda Airport on Travel Products

SESSION 2-B: AVIATION AND ENVIRONMENTS II – ROOM 54

Chair: Kostas Iatrou, Air Transport News, Greece

- 37 Augusto Voltes-Dorta *Universitat de Barcelona, Spain*
Chikage Miyoshi *Cranfield University, UK*
The Impact of Aircraft Noise and Air Pollution on Scale Economies of UK Airports
- 197 Mattia Grampella, Fausto Tassan, Giovanni Zambon *University of Milan Bicocca, Italy*
Gianmaria Martini, Davide Scotti *University of Bergamo, Italy*
Airports' Noise Nuisance and Emissions: Estimation and Validation Through INM and EDSM Simulation at Italian Airports
- 294 Hansjochen Ehmer *German Aerospace Center, Germany*
Symbolic Politics as a Matter of Airport Noise Mitigation Programs

SESSION 2-C: AIRPORT PLANNING AND MANAGEMENT II – ROOM 42

Chair: Perry Miller, Houston Hobby Airport, USA

- 329 Richard Moxon, Udit Kapur *Cranfield University, UK*
Air Traffic Distribution in a Multi-Airport Environment: The Mumbai Metropolitan Region
- 3 Hesam Shabaniverki *Islamic Azad University of Tehran Science and Research Branch, Iran*
Amir Reza Mamdoohi *Modares University, Iran*
Mahmoud Saffarzadeh *Tarbiat Modares University, Iran*
Airport Passenger Terminals Capacity Planning - Case Study: IKIA and MIA
- 133 Sze-Wei Chang *China University of Science and Technology, Taiwan*
Teeba Wan-chih Lu, Mandy Wen-chuan Ho *Overseas Chinese University, Taiwan*
Optimum Runway Orientation

- 346 Amir Reza Mamdoohi *Tarbiat Modares University, Iran*
 Abolfazl Taherpour *Islamic Azad University, Iran*
 Mahdi Yazdanpanah *K.N. Toosi University of Technology, Iran*
Multinomial Logit Modeling of Access Mode Choice to Airport, Using Stated preference Survey
Data: A Case Study of IKIA

SESSION 2-D: MERGERS AND ALLIANCES II – ROOM 5

Chair: Robert Windle, University of Maryland, USA

- 84 Paolo Malighetti, Valentina Morandi, Stefano Paleari *University of Bergamo, Italy*
 Renato Redondi *University of Brescia, Italy*
The Determinants of Codesharing Agreements by Low Cost Carriers
- 320 Li Zou, Chunyan Yu *Embry-Riddle Aeronautical University, USA*
 Martin Dresner *University of Maryland, USA*
The Structure of Global Alliances and its Impacts on Airline Performance
- 306 Ruowei Chen, Zheng Lei *Cranfield Univeristy, UK*
The Price Effects of Airline Merger: the Case of China Eastern and Shanghai Airlines
- 233 Marco Alderighi *Universita della Valle d'Aosta, Italy*
 Alberto A. Gaggero *University of Pavia, Italy*
 Claudio A. Piga *Loughborough University, UK*
Dynamic Pricing with Codesharing

SESSION 2-E: AIRLINE MANAGEMENT AND STRATEGY I – ROOM 3

Chair: Andreas Papatheodorou, University of the Aegean, Greece

- 110 Evangelia Siachou, Triant Flouris *Hellenic American University, USA*
Managing the Risky Matter of Business Model Innovation in the Context of the Airline Industry
- 53 Francois Domergue *Inseec Research, France*
The Contribution of Feedback System to the Management of Critical Situation in Air Transport
- 269 Yusaf H. Akbar *Central European University, Hungary*
 Adel Nemeth *Jacobs University and University of Applied Sciences, Germany*
 Hans-Martin Niemeier *University of Applied Sciences, Germany*
Organizational Theory, Strategy and "Permanent Failure": Explaining Economic Outcomes in the Airline Industry

SESSION 2-F: LOW COST CARRIERS II – ROOM 55

Chair: Seock-Jin Hong, Bordeaux Management School, France

- 31 Nadine Itani, Keith Mason *Cranfield University, UK*
 William G. Morrison *Wilfrid Laurier University, Canada*
The Impacts of Operating Environment on the Structure and Evolution of Middle Eastern Low Cost Carriers
- 319 Martin E. Dresner, Omar Sherif Elwakil *University of Maryland, USA*
The Impact of Low Cost Carriers on Transborder Demand Leakage in the U.S. – Canadian Air Passenger Market
- 178 Tamilla Curtis, Dawna Rhoades *Embry-Riddle Aeronautical University, USA*
Analysis of Low-Cost Carriers in the Post-Soviet States

- 196 Jovana Kuljanin, Milica Kalic *University of Belgrade, Serbia*
Analysis of Traditional and Low-Cost Airlines Passengers' Profile on Competitive Routes Using Statistical Multivariate Methods: Belgrade Airport Case Study

SESSION 2-G: AVIATION SAFETY II – ROOM 2

Chair: Peter Bruce, Swinburne University of Technology, Australia

- 215 Yuna Noh, Yoonjin Yoon *Korea Advanced Institute of Science and Technology, Korea*
A Perspective on Occurrence in Aviation Safety Management in South Korea through a Survey on Various Occurrence Categories
- 161 D.P. Gleave, D.E. Pitfield, L.C.S. Budd *Loughborough University, UK*
Reducing the Risk to Aircraft Occupants and Third Parties: Improving the International Standards for Airport Operations
- 36 J. Bryan Burrows-McElwain, I.K. Dabipi, Chris Hartman, Xavier Henry *University of Maryland Eastern Shore, USA*
Making a Case for Improved Safety: The Challenge of Developing Metrics to Measure the Impact of Weather Camera System Data Sources on Pilot's Planning and Decision Making in General Aviation

SESSION 2-H: AIR TRAFFIC CONTROL AND MANAGEMENT II – ROOM 22

Chair: Nicole Adler, Hebrew University, Israel

- 343 Volodymyr Bilotkach *Newcastle University, USA*
Simone Gitto *University of Rome, Italy*
Radosav Jovanovic *University of Belgrade, Serbia*
Juergen Mueller *Berlin School of Economics and Law, Germany*
Eric Pels *Vrije Universiteit Amsterdam, Netherlands*
Cost-Efficiency Benchmarking of European Air Navigation Service Providers: Problem, Past Efforts and a Way Forward
- 236 Kiyotaka Yuguchi *Sagami Women's University, Japan*
Technological Evolution and Transition of Charging Systems in the Air Traffic Control
- 109 Kadriye Yaman, Hakan Oktal, Metin Altan *Anadolu University, Turkey*
Analyzing the Capacity of Turkish Airspace by Using GIS
- 80 Mayara Conde Rocha Murca, Carlos Müller *Instituto Tecnológico de Aeronautica, Brazil*
An Optimization Model for Scheduling Aircraft Landings in a Terminal Area considering Alternative Arrival Routes

SESSION 2-I: GEOGRAPHICAL DIMENSIONS IN AIR TRANSPORTATION – ROOM 4

Chair: Kevin O'Connor, Melbourne University, Australia

- 52 Kevin O'Connor *Melbourne University, Australia*
The Geography of Asia-Pacific Aviation: A Constraint on Growth?
- 94 Andrew R Goetz *University of Denver, USA*
Geographies of Air Transport
- 77 Khaula A. Alkaabi *United Arab Emirates University, UAE*
Middle Eastern Carriers and Hub Airports
- 75 Kurt Fuellhart *Shippensburg University, USA*
Relative Passenger Levels on Routes at Nearby Airports within Four Urban Regions of the U.S.A

CONCURRENT SESSION 3 (FRIDAY, JUNE 28, 08:30 – 10:00)

SESSION 3-A: AIR TRANSPORT DEVELOPMENT AND POLICY I – ROOM 1

Chair: Bijan Vasigh, Embry Riddle Aeronautical University, USA

- 256 Joao P. Pita, Miguel G. Santos, Antonio P. Antunes *University of Coimbra, Portugal*
Antonio G. de Menezes *University of the Azores, Portugal*
Public Service Obligations in Air Transportation Networks: A Study for the Azores
- 68 Chittayong Surakitbanharn, Daniel Aldrich, Steven Landry *Purdue University, USA*
Nobuaki Minato, Masaru Nakano *Keio University, Japan*
A Methodology in Evaluating the Value of Government Incentives for Remote Airports in the United States
- 323 Alda Metrass Mendes *Icelandic Tourism Research Centre, Iceland*
Richard de Neufville *Massachusetts Institute of Technology, USA*
Alvaro Costa *Faculdade de Engenharia da Universidade do Porto, Portugal*
Alessandro de Oliveira *Instituto Tecnológico de Aeronáutica, Brazil*
Air Transport Design for Small Remote Communities: Policy Options Under Regulatory Reform
- 166 Alexandra Leipold, Petra Kokus, Michael Hepting *German Aerospace Centre, Germany*
Assessment of the Overall Global Air Transport Development in Consideration of General Sustainable Development Goals

SESSION 3-B: AVIATION AND ENVIRONMENTS III – ROOM 3

Chair: Andrea Salanti, University of Bergamo, Italy

- 332 Sang-Yong Han *Dongseo University, Korea*
Tae Seung Kim *Inha University, Korea*
Fuel Efficiency and CO2 Emission in the Aviation Industry- Comparison Among OECD Countries
- 143 Andrew Yuen *Chinese University of Hong Kong, Hong Kong*
Janina Scheelhaase, Martin Shaefer *German Aerospace Center, Germany*
Greenhouse Gas Emission due to the New Runway in Hong Kong
- 224 Nicola Volta, *University of Southern Denmark, Denmark*
Gianmaria Martini, Davide Scotti *University of Bergamo, Italy*
An Empirical Assessment of the CO2 Emissions Produced by European Airlines over the Period 2000-2010
- 18 Marcello Amato *CIRA, Italian Centre for Aerospace Research, Italy*
Wouter Beelaerts *Delft University of Technology, Netherlands*
Ad de Graaff *AD Cuenta (ADC), Netherlands*
Bartosz Dziugiel *Institute of Aviation (ILOT), Poland*
Stephan Horn, Peter A. Meincke *DLR German Aerospace Center, Germany*
Noemi Kral *SLOT Consulting Ltd, Hungary*
Giuseppe Siciliano *Gruppo CLAS, Italy*
Analysis of Current Situation and Expected Future Bottlenecks and Challenges in Air Cargo - First Results of Cargomap Project

SESSION 3-C: AIRPORT PLANNING AND MANAGEMENT III – ROOM 5

Chair: Rico Merkert, University of Sydney, Australia

- 26 Mark Friesen *QUINTA Consulting & University of St. Gallen, Germany*
Increasing Car Park Revenues at European Airports
- 340 Nina Leheyda *KU Leuven, Belgium*
Jürgen Müller, Roman Pashkin *Berlin School of Economics and Law, Germany*
Organizational Form and Performance: Evidence from the US Airport Retailing
- 148 Jin-Long Lu *National Kaohsiung Maritime University, Taiwan*
Determinants of Passengers' Shopping Intentions at Airports
- 164 Patrick Bohl *Corvinus University of Budapest, Hungary*
An Investigation into Airport Related Stress, Coping and Shopping Behaviour
- 299 Muneki Yokomi *Osaka University of Commerce, Japan*
Empirical Analysis for Passenger Behavior of LCC in Airport's Commercial Facilities

SESSION 3-D: MERGERS AND ALLIANCES III – ROOM 42

Chair: Kenneth Button, George Mason University, USA

- 34 Jinkook Lee *Texas A&M University, USA*
Endogenous Product Characteristics in an Analysis of Merger Effects: A Study of the U.S. Airline Industry
- 292 Humberto Bettini, Alessandro Oliveira *Institute for Applied Economic Research (IPEA), Brazil*
Do Airlines Adjust Capacity Before Mergers are Announced and Approved? Some Evidence from Brazilian Reality
- 46 Sunder Raghavan, Jayathi Raghavan *Embry-Riddle Aeronautical University, USA*
Consolidation in the Airline Industry: The Delta-Northwest Merger
- 298 Guillaume Burghouwt *SEO Economic Research, The Netherlands*
Determinants of Long-Haul Specialization in Multi-Hub Airline Networks: An Empirical Analysis

SESSION 3-E: AIRLINE MANAGEMENT AND STRATEGY II – ROOM 2

Chair: Terence Fan, Singapore Management University, Singapore

- 90 Jost Daft, Sascha Albers *University of Cologne, Germany*
The Convergence of Airline Business Models. An Empirical Analysis of European Passenger Airlines
- 155 J. F. O'Connell *Cranfield University, UK*
D. Warnock-Smith *University of Huddersfield, UK*
An Examination of the Possible Future Trends in Airline Ancillary Revenues
- 169 Sukru Nenem, Nigel Dennis, Anne Graham *University of Westminster, UK*
A Method for Developing a Consumer Preference Centric Airline Schedule Quality Metric
- 241 Oriol Lordan, Jose M Sallan, Pep Simo, *Universitat Politècnica de Catalunya, Spain*
David Gonzalez-Prieto, *Volotea, Spain*
Jordi Bigorra *Independent Researcher, Spain*
Preliminary Study of the Full-Service and Low-Cost Carriers Network Configuration
- 350 Ian Douglas *University of New South Wales, Australia*
Blurred Boundaries. Airline Business Model Convergence

SESSION 3-F: LOW COST CARRIERS III – ROOM 55

Chair: Richard Klophaus, Worms University of Applied Sciences, Germany

- 183 Branko Bubalo, *University of Hamburg, Germany*
Alberto A. Gaggero *University of Pavia, Italy*
Low Cost Carriers and Airline Punctuality in Europe
- 74 Yu-Chun Chang *National Taiwan Ocean University, Taiwan*
Factors Affecting Passengers' Behavioral Intentions to Fly Low-cost Carriers to Taiwan
- 137 Koichi Tanaka *Ibaraki University, Japan*
Geographical Analysis on Change of Nodal Structure and Network Expansion of Low Cost Carriers in Japan
- 287 Rogeria de Arantes Gomes Eller *Technological Institute of Aeronautics, Brazil*
Say's Law Application to Air Transportation: The Case of Azul Airlines in Brazil

SESSION 3-G: AVIATION SAFETY III – ROOM 22

Chair: Jorge Silva, University of Beira Interior, Portugal

- 79 Jose Francisco Barboza Lobianco, Anderson Ribeiro Correia *Aeronautics Institute of Technology, Brazil*
Methodology to Obtain Airport Safety Indicators Using Safety Management Systems
- 165 Yu-Hern Chang, Hubert J. Chen, Pei-Chi Shao *National Cheng Kung University, Taiwan*
A Performance Evaluation on Airport Safety Management System in Taiwan
- 51 Joao Luiz de Castro Fortes, Anderson Ribeiro Correia, Carlos Muller *Aeronautics Institute of Technology, Brazil*
Impacts of Different Operational Conditions in Risk Assessment for an Airport

SESSION 3-I: AIR TRANSPORT DEMAND I – ROOM 4

Chair: Dieter Wilken, German Aerospace Center, Germany

- 120 Nobuo Akai, Munekatsu Usami *Osaka University, Japan*
Analysis for Primary Factors for Flight Choice - Examination of Pursuit for Convenience and Opportunity Cost on Air Travel in Multi-Airport Region: Greater Osaka
- 69 Yi Hsin Lin *Asia University, Taiwan*
Kuancheng Huang *National Chiao Tung University, Taiwan*
Analyzing the Willingness-to-Pay for Air Tickets Under the Implementation of Revenue Management
- 300 Jan Veldhuis, *Amsterdam Aviation Economics, The Netherlands*
The Long Term Potential of Hubs
- 221 Morteza Khashaypoor *Tehran Traffic and Transportation Organization, Iran*
Kambiz Mostofi Darban, Bahram Ahadi *Pars Masir Gostar Consulting Engineers, Iran*
Development of Demand Diversion Models for Low-cost Carrier Airlines Based on Logit Structure (Case Study in Iran)

CONCURRENT SESSION 4 (FRIDAY, JUNE 28, 10:30 – 12:00)

SESSION 4-A: AIR TRANSPORT DEVELOPMENT AND POLICY II – ROOM 5

Chair: Alvaro Costa, Universidade do Porto, Portugal

- 29 Frank Fichert *Worms University of Applied Sciences, Germany*
Peter Forsyth *Monash University, Australia*
Hans-Martin Niemeier *University of Applied Sciences Bremen, Germany*
Aviation Taxes: Analyzing Impacts and Interactions with Other Instruments
- 32 Nadine Itani, John F. O'Connell, Keith Mason *Cranfield University, UK*
Towards Realizing Best-Fit Civil Aviation Strategy Scenarios
- 43 Andreas Polk *Berlin School of Economics and Law, Germany*
Lobbying in the Aviation Industry: A Case Study for Frankfurt Airport
- 338 Wilfred S. Manuela Jr. *Ateneo de Manila University, Philippines*
Manuel J. de Vera *Asian Institute of Management, Philippines*
The Impact of Government Failure on Tourism in the Philippines

SESSION 4-B: AVIATION AND ENVIRONMENTS IV – ROOM 3

Chair: Tae Seung Kim, Inha University, Korea

- 271 Annela Anger *University of East Anglia, UK*
Estimating the Impacts of Including Aviation in the EU ETS by Using Endogenous Carbon Price
- 211 Cherie Lu, Ming-Tao Chou *Chang Jung Christian University, Taiwan*
The Implications of Carbon Trading and Offset Schemes on the Aviation Industry: How Are the Carbon Trading Price and Fuel Price Linked?
- 175 Eva Ruiz Ibanez, Chikage Miyoshi *Cranfield University, UK*
Analysis of the Impact of the EU ETS on African Airlines: Network and Fleet
- 132 Ali Mansour Khaki *University of science and technology, Iran*
Amir Esmael Forouhid *University of Science & Technology, Iran*
Mahdi Yazdan Panah *Khaje Nashir University, Iran*
Hazardous of Air pollution in the KIA Airport Operations and Methods for Controlling It

SESSION 4-C: AIRPORT PERFORMANCE I – ROOM 1

Chair: Daniel Sallier, Aéroports de Paris, France

- 92 Anne Graham, Nigel Dennis *University of Westminster, UK*
The Traffic and Financial Performance of UK Regional Airports 2003-2013
- 301 Joost Zuidberg *SEO Economic Research, Netherlands*
The Key Drivers for an Airport's Financial Performance
- 272 Tolga Ulku *Humboldt University of Berlin, Germany*
An Empirical Analysis of Airport Groups: AENA and DHMI
- 318 Luis Odair Azevedo Gomes Raymundo, *Universidade Federal do Rio de Janeiro (UFRJ), Brazil*
Carlos Alberto Nunes Cosenza
A Proposal for a Performance Evaluation of Airport Administration Using Fuzzy Concept

SESSION 4-D: AIRLINE ECONOMICS I – ROOM 42

Chair: Yimin Zhang, China Europe International Business School, China

- 216 Christiaan Behrens, Mark G. Lijesen *VU University Amsterdam, Netherlands*
Capacity Choice Under Uncertainty with Product Differentiation
- 130 Baek-Jae Kim, Kwang-Eui Yoo *Korea Aerospace University, Korea*
Youn-Chul Choi *Hanseo University, Korea*
Changes of Airlines Profit Structure and Network Operation Influenced by Internalization of External Costs
- 66 Wolfgang Grimme *German Aerospace Center (DLR), Germany*
When Size Matters - Some Insights into the Frequency vs. Aircraft Size Trade-off in Long-Haul Air Transport Development
- 309 Nicole Adler *Hebrew University, Israel*
Antonio P. Antunes, Joao P. Pita *Coimbra University, Portugal*
Welfare-based Schedule Design and Fleet Assignment with an Application to a Norwegian Network
- 138 Davide Scotti *University of Bergamo, Italy*
Martin Dresner *University of Maryland, USA*
The Impact of Baggage Fees on Passenger Demand on US Air Routes

SESSION 4-E: AIRLINE MANAGEMENT AND STRATEGY III – ROOM 54

Chair: Christian Hofer, University of Arkansas, USA

- 203 Noriko Okabe *Aoyama Gakuin University, Japan*
Characteristics in Airline Industry, Application of Principal Component Analysis
- 344 Suiling Li *National Penghu University of Science and Technology, Taiwan*
Study on Aircraft Allocation of Taiwanese Airlines in Cross-Strait Air Markets
- 246 Jin-Ru Yen, Tsung-Hsun Liu, Lung-Chuan Hsieh *National Taiwan Ocean University, Taiwan*
Applying Real-Time Information to Optimize the Flight Path for Airlines
- 297 Terrance Fan Ping-Ching *Singapore Management University, Singapore*
Fast Capacity Expansions and Failure: A Trap for New Airline Entrants
- 88 Kuancheng Huang, Wan-Ting Liu *National Chiao Tung University, Taiwan*
Solving the Choice-Based Network Revenue Management Problem by the Approach of Parameterized Function Approximation

SESSION 4-F: AIR TRANSPORT IN CHINA – ROOM 55

Chair: Japhet Law, Chinese University of Hong Kong, Hong Kong

- 331 Li Zhang, Jingjing Yao, Huaqing Hu, Zheng Peng *China Academy of Civil Aviation Science and Technology, China*
China Air Cargo Transport: The Status Quo and Solutions
- 321 Xiaowen Fu *University of Sydney, Australia*
Kun Wang *Hong Kong Polyethnic University, Hong Kong*
Zheng Lei *Cranfield University, UK*
Jia Yan *Washington State University, USA*
Low-cost Carrier in China: Spring Airline's Effect on Market Competition and its Entry Pattern

- 35 Xinhui Ren, Qiling Sun *Civil Aviation University of China, China*
An Analysis of Connectivity Level and the Loss of Cut-off Point of Domestic Air Network in China
- 351 Yang Yan Yang, Liu Wei *Dalian Maritime University, China*
 Japhet Law *Chinese University of Hong Kong, China*
Application of Complex Networks on Airport Customer Management in China

SESSION 4-G: HUMAN FACTORS AND SAFETY – ROOM 22

Chair: Erin Bowen, Purdue University, USA

- 97 Peter Bruce, Yi Gao, David Newman, Natalia Rajendran *Swinburne University of Technology, Australia*
A Comparative Study of Flight Crews' Attitudes Toward the Safety Climate of a Commercial Airline from 2011 to 2012
- 14 Ching-Fu Chen *National Cheng Kung University, Taiwan*
 Shu-Chuan Chen *Aletheia University, Taiwan*
Exploring the Effects of Job Demands and Job Resources on Cabin Crew Safety Behaviors
- 19 Rodney O. Rogers *Embry-Riddle Aeronautical University, USA*
Preliminary Results of an Online Survey to Determine Air Transport Pilot Attitudes Toward Upset Prevention and Recovery Training
- 42 Sara Zorro, André Marques, Luís Patrão, Ana Coelho, Jorge Silva *University of Beira Interior, Portugal*
Pilots Performance and Flight Safety: Flight Physiology in Unpressurized Aircraft Cabins
- 126 Yi Gao, Peter J. Bruce, David G. Newman, Natalia Rajendran *Swinburne University of Technology, Australia*
Safety Climate of Crew Members: A Cross-Sectional Investigation of Flight Crew and Cabin Crew

SESSION 4-H: AIRLINE AND AIRPORT RELATION I – ROOM 2

Chair: Gianmaria Martini, University of Bergamo, Italy

- 162 Pere Suau-Sanchez *Cranfield University, UK*
 Guillaume Burghouwt *SEO Economic Research, Netherlands*
 Xavier Fageda *Universitat de Barcelona, Spain*
Identifying the Determinants for Market De/Concentration in the US and the EU, 1990-2009
- 86 Hideki Fukui *Ehime University, Japan*
Effect of Slot Trading on Route-Level Competition: Evidence from Experience in the UK
- 231 Ricardo Flores-Fillol, *Universitat Rovira i Virgili, Spain*
 Xavier Fageda *Universitat de Barcelona, Spain*
Airport Congestion and Airline Network Structure
- 116 Volodymyr Bilotkach *Newcastle University, UK*
 Juergen Mueller *HWR, Germany*
 Adel Nemeth *University of Applied Sciences, Germany*
Value of Airline Networks: Case of a Hub Operator Bankruptcy
- 146 Ming Hsin Lin *Osaka University of Economics, Japan*
Airport Congestion Pricing and Airline Network Choices

SESSION 4-I: AIR TRANSPORT DEMAND II – ROOM 4

Chair: David Pitfield, Loughborough University, UK

- 302 Ivica Kovacic *International Air Transport Association, Canada*
Bijan Vasigh *Embry-Riddle Aeronautical University, USA*
Ruzica Skurla Babic *University of Zagreb, Croatia*
Quality of Service Index Factors and Passenger Perspective Implication
- 249 Dominik Grether, Kai Nagel *TU of Berlin, Germany*
Agent-Based Modelling of Air Transport Demand
- 134 Kwang Eui Yoo, Se-Yeon Jung *Korea Aerospace University, Korea*
A Comparative Analysis of Two Papers on Passengers' Airline Choice Issue
- 240 Oriol Lordan, Pep Simo Jose M Sallan *Universitat Politecnica de Catalunya, Spain*
Marta Setien *Vueling Airlines, Spain*
David Gonzalez-Prieto, *Volotea, Spain*
A Panel Data Model of Passenger Air Transport Demand

CONCURRENT SESSION 5 (FRIDAY, JUNE 28, 14:00 – 15:30)

SESSION 5-A: AIRPORT REGULATION AND PRIVATIZATION I – ROOM 54

Chair: Chaouki Mustapha, International Civil Aviation Organization, Canada

- 28 Paul Hooper, *University of New South Wales, Australia*
Margaret Arblaster *Monash University, Australia*
Light Handed Regulation - its Relevance in the Developing World
- 327 Hans-Martin Niemeier *University of Applied Sciences, Germany*
Peter Forsyth *Monash University, Australia*
Juergen Mueller *Berlin School of Economics and Law, Germany*
Incentive Regulation of Airports - An Economic Assessment
- 255 Enzo Defilippi *Universidad del Pacífico, Peru*
X-Factor Setting in a Developing Country: The Case of Lima's Airport
- 282 Chris Cain, Rich Barone *London's Aviation Peer Review Group, UK*
NYLON Airports - The Challenge of Retaining Globally Competitive Airport Systems to Serve the Highest Ranked World Cities - New York and London?

SESSION 5-B: AVIATION AND ENVIRONMENTS V – ROOM 3

Chair: Annela Anger-Kraavi, University of East Anglia, UK

- 172 Chikage Miyoshi *Cranfield University, UK*
Piet Rietveld *VU University Amsterdam, Netherlands*
Measuring the Equity Effects of Carbon Charge on Car Commuters: A Case Study of Manchester Airport
- 334 Dr. Ma Xiangshan *China Academy of Civil Aviation Science and Technology, China*
China's Policies and Actions on Greenhouse Gas Emissions from International Aviation
- 129 Tzu-Ying Chen, Rong-Chang Jou *National Chi Nan University, Taiwan*
Chung-Wei Kuo *Aletheia University, Taiwan*
Willingness to Pay of Air Passengers for Carbon-Offset Policy
- 173 Romain Neveux, Chikage Miyoshi *Cranfield University, UK*
The Impact of the EU-ETS on European LCCs: A Case Study of EasyJet

SESSION 5-C: AIRPORT PERFORMANCE II – ROOM 5

Chair: Anne Graham, University of Westminster, UK

- 330 Laingo Manitra Randrianarisoa, Denis Bolduc *Laval University, Canada*
Yap Yin Choo, Tae Hoon Oum *University of British Columbia, Canada*
Jia Yan *Washington State University, USA*
Effects of Corruption on Efficiency of the European Airports
- 279 Jurgen Muller, *Berlin School of Economics and Law, Germany*
Hans-Martin Niemeier, *University of Applied Sciences Bremen, Germany*
Nicole Adler *University of Jerusalem, Israel*
Benchmarking the efficiency of Norways Avinor's airports: The politics of maintaining an inefficient National System
- 151 Masamitsu Onishi *Kyoto University, Japan*
Shinya Hanaoka *Tokyo Tech, Japan*
Ownership Structure of Multiple Airports and Economic Efficiency
- 259 Eleni Rapti, Francesca Medda *QASER Laboratory University College London, UK*
Environmental Efficiency Analysis Of The Airport Industry: A Parametric Distance Functions Approach

SESSION 5-D: AIRLINE ECONOMICS II – ROOM 42

Chair: Xavier Fageda, Universitat de Barcelona, Spain

- 153 Paolo Malighetti, Stefano Paleari *University of Bergamo, Italy*
Renato Redondi *University of Brescia, Italy*
EasyJet Pricing Strategy: Determinants and Developments
- 63 Yi Zhang, Xingwu Zheng *Civil Aviation University of China, China*
Multimarket Contact and Pricing Competition in China's Airline Industry
- 291 Zheng Lei, Kirtirajsinh Parmar *Cranfield University, UK*
The Effects of Middle East Carriers on Airfares in the India – Europe Market
- 280 Angela S. Bergantino, Claudia Capozza *University of Bari, Italy*
Airline Pricing Behaviour Under Limited Intermodal Competition

SESSION 5-E: AIRLINE MANAGEMENT AND STRATEGY IV – ROOM 1

Chair: Ian Douglas, University of New South Wales, Australia

- 78 Steven Leon *University of Central Florida, USA*
Joseph Szmerekovsky, Denver Tolliver *North Dakota State University, USA*
A Risk Mitigation Approach to Strategic Capacity Allocation: An Airline Perspective
- 144 Karl Nachtigall, Steffen Marx *Technische Universität Dresden, Germany*
A Decision Support System for Seasonal Flight Scheduling by Using Linear Optimization and Transport Demand Modeling
- 289 Kevin Lin *Technische Universität Darmstadt, Germany*
Mark Azzam *Massachusetts Institute of Technology, USA*
Christoph Wollersheim, Alex Cosmas *Booz Allen Hamilton Inc., USA*
An Empirical Airline Analytics Tool Based on Bayesian Networks

- 115 Yu-Chiun Chiou, Chia-Hsin Liu, Chih-Wei Hsieh *National Chiao Tung University, Taiwan*
Key Factors Contributing to the Total Operating Cost of Taiwan Domestic Air Routes

SESSION 5-F: AIRPORT ECONOMICS I – ROOM 55

Chair: Jan Veldhuis, Amsterdam Aviation Economics, The Netherlands

- 49 Tobias Grosche *Airconomy Aviation Intelligence GmbH, Germany*
 Richard Klophaus *Worms University of Applied Sciences, Germany*
Hubs at Risk: Exposure of Europe`s Largest Hubs to Competition on Transfer City-Pairs
- 204 Valentina Bracaglia , Tiziana D'Alfonso , Alberto Nastasi *Sapienza Universita di Roma, Italy*
Airports and Airlines E-Commerce Strategies: The Effect of Air Ticket Pricing on Passenger Demand for Commercial Services
- 118 Annika Paul *Bauhaus Luftfahrt e.V., Germany*
European Hub Airport Development in the Face of Increasing Competition

SESSION 5-G: AIRPORT OPERATION I – ROOM 22

Chair: Anderson Correia, Aeronautics Institute of Technology, Brazil

- 96 Chung-Wei Kuo *Aletheia University, Taiwan*
 Mei-Ling Tang *Chienkuo Technology University, Taiwan*
 Rong-Chang Jou *National Taiwan University, Taiwan*
A Study on Airline Passengers' Behavior Intention to Use Self-Service Check-in Kiosks- from Taiwanese Air Passengers' Perspectives
- 237 Chung-Wei Kuo *Aletheia University, Taiwan*
 Mei-Ling Tang *Chienkuo Technology University, Taiwan*
 Rong-Chang Jou *National Taiwan University, Taiwan*
An Empirical Study of Check-In Services Choice Behaviour for Air Passengers
- 9 Andreas Wittmer *University of St. Gallen, Switzerland*
Customer Value of Airport Security Services
- 283 Perry J. Miller *William P. Hobby Airport, USA*
Security Screening Checkpoint Wait Times: An Analysis of the Average Peak Wait Times at William P. Hobby Airport – Continued

SESSION 5-H: AIRLINE AND AIRPORT RELATION II – ROOM 2

Chair: Sascha Albers, University of Cologne, Germany

- 254 Florian Allroggen *Muenster University, Germany*
 Robert Malina *Massachusetts Institute of Technology, USA*
 Ann-Katrin Lenz *Berlin Institute of Technology, Germany*
Why Do Airports Apply Incentive Schemes? An Empirical Analysis
- 229 Katsuya Hihara *University of Tokyo, Japan*
Multi-sided Analysis of Airport - Airline Risk Sharing Contract
- 60 Hangjun Yang *University of International Business and Economics, China*
 Anming Zhang *University of British Columbia, Canada*
 Xiaowen Fu *University of Sydney, Australia*
Determinants of Airport - Airline Vertical Relationships- Analytical Results and Empirical Evidence

- 212 Batari Saraswati, Shinya Hanaoka *Tokyo Institute of Technology, Japan*
Airline-Airport Cooperation in Commercial Revenue Sharing: Network Approach
- 159 Owain Cai Jones, Lucy C.S. Budd, D. E. Pitfield *Loughborough University, UK*
Aeronautical Charging Policy Incentive Schemes for Airlines at European Airports

SESSION 5-I: AIRLINE MARKETING I – ROOM 4

Chair: Nigel Dennis, University of Westminster, UK

- 81 Chrystal Zhang, Bo Huang, Jaibei Liu, Wesley Robertson,
 Ignatius Soegeng, Aaron Yar Lun Wong *Swinburne University of Technology, Australia*
Are Airlines Interactively Communicating with Their Users at Social Media?
- 93 Rong Qin *RMIT University, Australia*
Innovation Makers or Trend Followers: The Utilization of Social Networking Service in the Airline Industry
- 190 Seung Chang Lee, Sanghak Lee, Sun Hee Baek *Korea Aerospace University, Korea*
How Trust and Commitment in Airlines' Mileage Program Affect the Customers' Loyalty
- 131 William Jen, Mingying Lu
Selecting or Rejecting? Exploring Option Framing and Trip Purpose Affect Passengers' Choice of Airlines Services

CONCURRENT SESSION 6 (FRIDAY, JUNE 28, 16:00 – 17:30)

SESSION 6-A: AIRPORT REGULATION AND PRIVATIZATION II – ROOM 54

Chair: Hans-Martin Niemeier, University of Applied Sciences Bremen, Germany

- 336 Farhan Ahmed *University of Lincoln, UK*
A Critical Evaluation of the Impact on Competition of Changing Ownership Structures in UK Airports
- 315 Carlos Oliveira Cruz *Instituto Superior Tecnico, Portugal*
 Alvaro Costa *FEUP, Portugal*
 Fabiene Costa *INFRAERO, Brazil*
The Recent "Wave" of Airport Privatization Processes: The Case of Portugal and Brazil
- 295 Sakti Adji Adisasmita, Kiyoshi Kobayashi,
 Masamitsu Onishi, Suharman Hamzah *Hasanuddin University, Indonesia*
Airport Privatization, Theory and Analysis : Suitable Model for Indonesian Airports?
- 71 Pavlos Arvanitis, Andreas Papatheodorou *University of the Aegean, Greece*
Greek Airports at Crossroads - Past, Present and Future

SESSION 6-B: AIRLINE NETWORK DEVELOPMENT I – ROOM 3

Chair: Guillaume Burghouwt, SEO Economics Research, The Netherlands

- 22 Hatice Kucukonal, Leyla Adiloglu *Ozyegin University, Turkey*
 Hakan Oktal *Anadolu University, Turkey*
Airport Network in Turkey: How to Increase its Efficiency
- 199 Hugo E. Silva *VU University, Netherlands*
Sufficient Policy Instruments in Aviation Networks

- 21 Christian Hofer *University of Arkansas, USA*
 Cuneyt Eroglu *D'Amore-McKim School of Business, USA*
The Effect of Gulf Carrier Entry on Legacy Carrier Traffic: An Exploratory Analysis of US Data
- 171 Jean-Baptiste Dargelosse, Chikage Miyoshi *Cranfield University, UK*
Air Travel Passengers' Choice Model: Strategic Analysis of IAG's South-Atlantic Routes
- 181 Ricardo Rodrigues Pacheco *Empresa Brasileira de Infraestrutura Aeroportuaria, Brazil*
 Marcia Estrada Braga, Elton Fernandes *Universidade Federal do Rio de Janeiro, Brazil*
Spatial Concentration and Connectivity of International Passenger Traffic at Brazilian Airports

SESSION 6-C: AIRPORT PERFORMANCE III – ROOM 5

Chair: Shinya Hanaoka, Tokyo Institute of Technology, Japan

- 195 Peter Biesslich *Hamburg University of Technology, Germany*
Parametric Reference Airports
- 40 Maria Emilia Baltazar, Joao Jardim, Pedro Alves, Jorge Silva *University of Beira Interior, Portugal*
Air Transport Performance and Global Decision Analysis
- 48 Liliana Magalhaes, Vasco Reis, Rosario Macario *Instituto Superior Tecnico, Portugal*
Factor and Cluster Analysis Applied to Flexible Airports' Performance Data
- 207 Tiziana D'Alfonso, Cinzia Daraio, Alberto Nastasi *Sapienza Universita di Roma, Italy*
Assessing the Impact of Competition on the Efficiency of Italian Airports

SESSION 6-D: AIRLINE ECONOMICS III – ROOM 4

Chair: Paolo Malighetti, University of Bergamo, Italy

- 101 Nigel Dennis, Kenneth P. Stevens *University of Westminster, UK*
Strategies of Major Carriers Away from Their Main Hub Airports: A Comparison of the European and US Experience
- 152 Shengrun Zhang, Ben Derudder, Frank Witlox *Gent University, Belgium*
Impact of Hub Hierarchy, Alliances and Concentration on Airfare Pricing in European Hub-to-Hub Markets
- 303 Ruowei Chen, Zheng Lei *Cranfield University, UK*
Airport Dominance and Market Power in Chinese Domestic Market
- 210 Massimiliano Castellani, Pierpaolo Pattitoni, Lorenzo Zirulia *University of Bologna, Italy*
Temporal Interdependencies and Regimes in Passenger Flows: Evidence from Airport and Port of Emerald Coast

SESSION 6-E: AIRLINE PERFORMANCE I – ROOM 1

Chair: Anthony Chin, National University of Singapore, Singapore

- 147 Martin Phillips, P.J. Byrne, Malcolm Brady *Dublin City University Business School, Ireland*
Measuring Company Performance in Air Transport
- 64 Xingwu Zheng, Yi Zhang *Civil Aviation University of China, China*
What supported the Growth of China's Air Transport Industry from 1955-2011

- 239 Peter Morrell *Cranfield University, UK*
Sources of Airline Competitive Advantage: Labour Productivity
- 136 Muhammad Asraf Abdullah, Susila Munisamy, Nurulhuda Mohd Satar *University of Malaya, Malaysia*
Benchmarking Efficiency of Airlines in Asia Using Data Envelopment Analysis Metafrontier Approach: A Preliminary Finding
- 61 James Pearson *Loughborough University, UK*
 Rico Merkert *University of Sydney Business School, Australia*
Does Airline Customer Satisfaction Matter? Linking Customer Satisfaction with Airline Financial Performance

SESSION 6-F: AIRPORT ECONOMICS II – ROOM 55

Chair: Renato Redondi, Università degli Studi di Brescia, Italy

- 170 Enric Cuadras Oliva, Chikage Miyoshi *Cranfield University, UK*
A New Approach to Runway Charges: Case Study of Manchester Airport
- 247 Rustamdjan Hakimov *Humboldt University of Berlin, Germany*
 Juergen Mueller *Berlin School of Economics and Law, Germany*
 Gordana Savic *University of Belgrade, Serbia*
Charges of Uncongested German Airports: Do They Follow Ramsey Pricing Scheme?
- 189 Kensuke Unami, Masamitsu Onishi, Kiyoshi Kobayashi, *Kyoto University, Japan*
 Wakako Mantani
Landing Fee Pricing in Domestic and International Hub Airport Based on Two-sided Market Model
- 247 Rustamdjan Hakimov, Savia Hasanova *Humboldt University of Berlin, Germany*
 Juergen Mueller *Berlin School of Economics and Law, Germany*
Assessing the Evolution of Airport Charges and Their Structure in Germany from 1997 to 2011

SESSION 6-G: AIRPORT OPERATION II – ROOM 22

Chair: Andreas Wittmer, University of St. Gallen, Switzerland

- 73 Triant Flouris, Konstantinos Kalligiannis *Hellenic American University, USA*
Importance of Passenger Service Quality at Airports: The Athens International Airport Case
- 281 Axel Budde, Jaap de Wit *University of Amsterdam, Netherlands*
Arrival/Departure Patterns as Measures of Connectivity
- 6 Sakti Adji Adisasmita *Hasanuddin University, Indonesia*
Airport Location: Theory and Analysis
- 70 Ioulia Poulaki, Andreas Papatheodorou *University of the Aegean, Greece*
Rethinking "Airport Catchment Area": Intermodality for an Air Travel Alternative
- 333 Iara Cristina Pereira Lima de Paiva, Ian Lima Barreto, *Instituto Tecnológico de Aeronáutica, Brazil*
 Carlos Müller, Anderson Ribeiro Correia
Simulation Modeling for Airport Passenger Terminals: A Case Study of Sao Paulo Domestic Airport

SESSION 6-H: AIRLINE AND AIRPORT RELATION III – ROOM 2

Chair: Katsuya Hihara, University of Tokyo, Japan

- 114 Volodymyr Bilotkach
Xavier Fageda
Ricardo Flores-Fillol
The Effects of Airline Consolidation on the Distribution of Traffic Between Primary and Secondary Hubs
Newcastle University, UK
University of Barcelona, Spain
University Rovira i Virgili, Spain
- 347 Nadezda Volkova
Jürgen Müller
LCC Impact on the US Airports' Business
Ernst & Young LLP, UK
German Airport Performance Project, Germany
- 267 Kelly Yujie Wang, Tsz Leung Yip
Lei Zheng
Low-Cost Airlines Competition and Airport Choice between Primary and Secondary
Hong Kong Polytechnic University, Hong Kong
Cranfield University, USA
- 341 Yap Yin Choo, Tae Hoon Oum
Impact of Low Cost Carriers on US Airport Efficiency
University of British Columbia, Canada
- 337 Hun-Koo Ha
Yulai Wan, Anming Zhang
Yuichiro Yoshida
Airline Market Structure and Airport Efficiency: Evidence from Major Northeast Asian Airports
Inha University, Korea
University of British Columbia, Canada
National Graduate Institute for Policy Studies, Japan

SESSION 6-I: AIRLINE MARKETING II– ROOM 42

Chair: Blaise Waguespack, Embry Riddle Aeronautical University, USA

- 100 Whei-Li Lu, Jo-Ying Chang, Tzeng-Hua Yang
Airline Passengers Consideration Determinants in Selection Booking Channel
Chinese Culture University, Taiwan
- 50 Robert Mayer
Tim Ryley, David Gillingwater
An Analysis of Green Market Segments Amongst Air Passengers
University of Huddersfield, UK
Loughborough University, UK
- 214 David Gonzalez-Prieto, Oriol Lordan,
Pep Simo, Jose M Sallan
Aleix Alegre
Unavailability of Promotional Fares and Traditional Decoy Options: A Consumer Response Study
Universitat Politecnica de Catalunya. BarcelonaTech, Spain
Consultant, Spain
- 127 Whei-Li Lu, Yi-Hsing Lee
Corporate Account Concerns when Contracting with Airlines
Chinese Culture University, Taiwan

CONCURRENT SESSION 7 (SATURDAY, JUNE 29, 08:30 – 10:00)

SESSION 7-A: AIR TRANSPORT LIBERALIZATION AND OPEN SKIES – ROOM 2

Chair: Federica Origo, University of Bergamo, Italy

- 33 Jian-Yu Ke
Robert J. Windle
Are Skies Open Enough? A Study on The Diminishing Effect of Open Skies Agreements
University of Wisconsin-Eau Claire, USA
University of Maryland, USA

- 125 Peter Forsyth *Monash University, Australia*
 Hans-Martin Niemeier, Eric Njoya *University of Applied Sciences, Germany*
Economic Assessment of Airports and Air Transport Liberalization
- 220 Masamichi Hasebe *Kobe University, Japan*
Impacts of Free Trade Agreements on Civil Aviation Industries
- 112 Danjuma Ismaila, David Warnock-Smith, Nick Hubbard *University of Huddersfield, UK*
The Impact of Air Service Agreements Liberalization: The Case of Nigeria
- 209 Yoshitsugu Hayashi, Chuntao Wu *Nagoya University, Japan*
Inbound Charter Operations in Japan Post-Deregulation

SESSION 7-B: AIRLINE NETWORK DEVELOPMENT II – ROOM 3

Chair: Jaap de Wit, University of Amsterdam, The Netherlands

- 145 Sven Maertens, Wolfgang Grimme *German Aerospace Center (DLR), Germany*
Aviation in Post-Gaddafi Libya - Assessing the Potential for a New Euro-African Hub in Tripoli from an Economic-Geographic Perspective
- 242 Oriol Lordan, Nuria Escorihuela, Jose M Sallan, Pep Simo *Universitat Politecnica de Catalunya. BarcelonaTech, Spain*
 David Gonzalez-Prieto *Volotea, Spain*
Robustness of an Airline Route Network
- 82 Hidenobu Matsumoto, Koji Domae *Kobe University, Japan*
International Air Network Structures, Air Traffic Density of Major Cities and Effects of New Airports in Asia
- 102 Hendrik Niese, Wolfgang Grimme *German Aerospace Center (DLR), Germany*
How to Measure Airport Connectivity? Average Shortest Travel Time as Indicator

SESSION 7-C: AIRPORT CAPACITY AND DEMAND MANAGEMENT I – ROOM 22

Chair: Jürgen Müller, Berlin School of Economics and Law, Germany

- 30 Marc C. Gelhausen *German Aerospace Center (DLR), Germany*
A Model of Airport Capacity Expansion Delays
- 226 Peter Berster, Marc Gelhausen, Dieter Wilken *German Aerospace Centre, Germany*
Is Increasing Seat Capacity Common Practice of Airlines at Congested Airports?
- 85 Bojana Mirkovic, Andrija Vidosavljevic, Vojin Tosic, *University of Belgrade, Serbia*
A Tool to Support Resources Allocation at Small-to-Medium Seasonal Airports

SESSION 7-D: AIR CARGO AND LOGISTICS I – ROOM 1

Chair: Zheng Lei, Cranfield University, UK

- 56 Annika Paul, Mara Cole *Bauhaus Luftfahrt e.V., Germany*
Tackling the Future - Opportunities and Challenges in the Air Cargo System
- 250 Wouter Dewulf *University of Antwerp, Belgium*
From Carpet Sellers to Cargo Star. Analyzing the Management Strategies of Air Cargo Carriers

- 140 Janina D. Scheelhaase *German Aerospace Center (DLR), Germany*
Political Regulations of Aviation's Climate Impact and Cost Impacts on Air Freight
- 348 Qiang Gong *Southwestern University of Finance and Economics, China*
 Kun Wang *Hong Kong Polyethnic University, Hong Kong*
 Xingli Fan *Civil Aviation Administration of China, China*
 Xiaowen Fu *University of Sydney, Australia*
Why Chinese Airlines Haven't Become Leading Cargo Carriers - Analyzing Air Freight Network and International Trade Drivers for Mainland China

SESSION 7-E: AIRLINE PERFORMANCE II – ROOM 5

Chair: Ryan Leick, Utah Valley University, USA

- 307 Bo Lin, Yifan Qiu *Massey University, New Zealand*
The Application of DEA Based Malmquist Productivity Index in Airlines Performance Analysis
- 182 Chunyan Yu, Li Zou, Sunder Raghavan *Embry-Riddle Aeronautical University, USA*
A Comparative Analysis of Airlines in BRIC
- 260 Jim Paton *Cranfield University, UK*
Pilot Productivity Evolution and Benchmarking in the United Kingdom and United States of America
- 349 Khalil Ahmad *University of the Punjab, Pakistan*
 Anthony T H Chin *National University of Singapore, Singapore*
Measuring Productivity Efficiency of Asian Airlines: An Application of Two-step Bootstrap DEA Model

SESSION 7-F: FUTURE OF AIR TRANSPORT AND FORECASTING – ROOM 42

Chair: Tae H. Oum, University of British Columbia, Canada

- 39 Martin Schaefer *German Aerospace Center (DLR), Germany*
Forecast of Air Traffic's CO2 And NOx Emissions Until 2030
- 2 Niclas Randt *Technische Universitat Munchen, Germany*
 Christoph Jebberger, Kay Plotner *Bauhaus Luftfahrt e.V., Germany*
 Axel Becker *Airbus Operations GmbH, Germany*
Air Traffic Growth, Energy and the Environment 2040: Drivers, Challenges and Opportunities for Aviation
- 20 Michael Schmidt, Kay Olaf Plotner, Askin T. Isikveren *Bauhaus Luftfahrt e.V., Germany*
 Gerald Ottl, Mirko Hornung *Technische Universitat Munchen, Germany*
Scenario-Based Life-Cycle Cost Assessment of Future Air Transport Concepts
- 11 Chaouki Mustapha *International Civil Aviation Organization, Canada*
 Paul Hooper *, University of New South Wales, Australia*
Methods and Techniques for Global Commercial Aircraft Fleet Forecasts

SESSION 7-G: AIRPORT OPERATION III – ROOM 4

Chair: Cinzia Daraio, Sapienza University of Rome, Italy

- 222 Sebastian Kellner *RWTH Aachen University, Germany*
 Tim Alers *German Aerospace Center (DLR), Germany*
Combining Qualitative and Quantitative Measures for Airport Process Analyses

- 142 Els Struyf *University of Antwerp, Belgium*
Balance between Cargo and Passenger Activities at an Airport: A Synthesis of Literature
- 188 Stephen Ison *Loughborough University, UK*
Rico Merkert, Corinne Mulley *University of Sydney Business School, Australia*
Public Transport at Airports as an Environmental Strategy - Some Diverging Evidence from the UK and Australia
- 180 Joey Ying Lee, Lichen Hsieh, Melody Dzwo-Min Dai *National Cheng Kung University, Taiwan*
Peijung Li *National Quemoy University, Taiwan*
Exploring Kinmen Residents' Multi-Airports Choice Behavior Under a Cross-Country Framework
- 261 Ehsan Shirazinia
Majid Zabihi
Shahab Hassanpour
Airport Access Effect in Dual-Airport Systems

CONCURRENT SESSION 8 (SATURDAY, JUNE 29, 10:30 – 12:00)

SESSION 8-C: AIRPORT CAPACITY AND DEMAND MANAGEMENT II – ROOM 4

Chair: Chunyan Yu, Embry Riddle Aeronautical University, USA

- 121 Sveinn Gudmundsson *Toulouse Business School, France*
Stefano Paleari *University of Bergamo, Italy*
Renato Redondi *University of Brescia, Italy*
Spillover Effects of the Development Constraints in London Heathrow
- 258 Vitor Filincowsky Ribeiro, Li Weigang *University of Brasilia, Brazil*
Collaborative Decision Making with Games Theory for Slot Allocation and Departure Sequencing in Airports
- 13 Rafael de Araujo Almeida *Institute of Airspace Control, Brazil*
Mayara Condé Rocha Murça, Anderson Ribeiro Correia *Aeronautics Institute of Technology, Brazil*
Analysis of Alternatives to Increase the Runway System Capacity of the Sao Paulo/Guarulhos International Airport

SESSION 8-D: AIR CARGO AND LOGISTICS II – ROOM 42

Chair: Xiaowen Fu, University of Sydney, Australia

- 87 Evy Onghena *University of Antwerp, Belgium*
The Cost Structure of the Integrated Air Freight Business: An Updated Analysis
- 187 Rico Merkert *University of Sydney Business School, Australia*
Boris Ploix *Ecole Nationale des Travaux Publics de L'Etat (ENTPE), France*
The Impact of Terminal Re-Organization on Belly-Hold Freight Operation Chains at Airports
- 243 Franziska Kupfer *University of Antwerp, Belgium*
Airlines and Forwarders: A Love/Hate Relationship?

SESSION 8-E: AIRLINE PERFORMANCE III – ROOM 1

Chair: Alberto Nastasi, Sapienza University of Rome

- 285 Brent Bowen, Erin Bowen, Reilly Meehan
Dean Headley
A Longitudinal Examination of Air Carriers During 2007 Through 2011
Purdue University, USA
Wichita State University, USA
- 59 Hashim Salarzadeh Jenatabadi, Noor Azina Ismail
Airline Performance Assessment Framework
University of Malaya, Malaysia
- 65 Ryan Leick
A New Metric for Understanding Airline Operational Performance
Utah Valley University, USA
- 38 John H. Mott, Branden K. Avery
A Frequentist Examination of the Airline Quality Rating Using a Carrier Grouping Technique
Purdue University, USA

SESSION 8-F: INTER-MODAL TRANSPORTATION – ROOM 2

Chair: Wolfgang Grimme, German Aerospace Center, Germany

- 54 Marina Efthymiou, Andreas Papatheodorou
Travel Behaviour vis-a-vis Intermodality: Greece as a Case Study
University of the Aegean, Greece
- 55 Frederic Dobruszkes
Catherine Dehon
Moshe Givoni
Has European High-Speed Rail Led to a Decrease in the Supply of Air Services?
Oxford University, UK
Brussels Free University, Belgium
Tel-Aviv University, Israel
- 128 Mikio Takebayashi
Twin Hub Network and High-Speed Railway: Connectivity and Gateway Effect
Kobe University, Japan
- 156 Guillaume Burghouwt, Rogier Lieshout
Paolo Malighetti
Renato Redondi
Competitive Landscape in EU: A Passenger's Perspective
University of Amsterdam, Netherlands
University of Bergamo, Italy
University of Brescia, Italy
- 234 Miguel G. Santos, Antonio P. Antunes
Long-Term Developments of the German Main Airport Network: An Integrated Planning Study
University of Coimbra, Portugal

SESSION 8-G: AIRPORT OPERATIONS IV – ROOM 3

Chair: Koki Nagata, University of Maryland, USA

- 264 Tim J Ryley, Alberto M Zanni
Surface Access Issues at a Regional Airport in the UK: The Case Study of Robin Hood Airport Doncaster Sheffield
Loughborough University, UK
- 107 Dimitrios J. Dimitriou
Evaluation of Ground Access Performance at Airports
Democritus University of Thrace, Greece
- 305 Takeyuki Fukuda, Daisuke Fukuda, Shinya Hanaoka
Access Mode Choice Behaviour in Multiple Airport Region: the Case in Tokyo Metropolitan Area
Tokyo Institute of Technology, Japan
- 123 Shahab Hassanpour
Mahshid Mohammadi
Management and Programming for Application of Lands Surrounding Mehr Abad Tehran Airport
Avat-allah-Borujerdi University, Iran
Islamic Azad University, Iran
- 113 Michele Di Vito, Paola Di Mascio
Probabilistic Distribution of Landing Accidents Around Airports
Sapienza University, Italy

