

13th AIR TRANSPORT RESEARCH SOCIETY

World Conference – 2009

27-30 June 2009

Abu Dhabi, United Arab Emirates

CONFERENCE PROGRAMME



Hosted by:



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CONFERENCE PROGRAMME

June 2009¹

Friday 26th June

- 12:00-15:00** **ATRS Networking/Executive Committee Meeting**
Fahed Hall
Networking/Executive Committee members only
- 15:00-17:00** **ATRS Airport Benchmarking Task Force Meeting**
Fahed Hall
Task Force members only
- 15:00-18:30** **REGISTRATION OF DELEGATES**
Al Qasr Ballroom Foyer
- 17:30-20:30** **WELCOME RECEPTION (HOSTED BY ABU DHABI AIRPORTS COMPANY)**
Al Qasr Anteroom & Al Qasr Ballroom

Saturday 27th June

- 08:30-13:00** **REGISTRATION OF DELEGATES**
Al Qasr Ballroom Foyer
- 09:45-10:30** **2009 Conference Opening and Welcoming Addresses**
Al Qasr Ballroom
- Conference Chair: Dr Paul Hooper**
Welcoming Address by H.E. Mohamed Hareb Al Yousef, Executive Director - Aviation, Abu Dhabi Department of Transport
Welcome from the General Civil Aviation Authority, H.E. Saif Mohammed Al Suwaidi, Director General
Welcome by Professor Tae H. Oum, President of the ATRS
- 10:30-11:00** **Keynote Address**
Al Qasr Ballroom
- Roy Kinnear, Vice President – Revenue Management, Etihad Airways**

¹ This programme is based on the information available on the 21st June about submitted papers and firm commitments to deliver papers. Delegates will be informed about any changes to this schedule during registration.

- 11:00-12:00** **Panel – Addressing Road Blocks for Continued Middle East Passenger Growth**
Al Qasr Ballroom
Moderator: Michael Kellaway, Department of Transport
Presenters/Panelists:
 Fadi Majdalani, Vice President & Partner, Booz & Co.
 Vijay Poonosamy, Vice President – International Affairs, Etihad Airways
 Laurie Price, Director of Aviation Strategy, Mott MacDonald
 ITA
 Simon Walker, Managing Director, Aquila Aviation Limited
- 12:00-13:00** **LUNCH**
Al Qasr Ballroom
- 13:00-13:30** **ATRS Global Airport Benchmarking Project, 2008**
Al Qasr Ballroom
Chair: Professor Tae H. Oum, University of British Columbia
- 13:30-14:30** **Panel - Competitive Airport Strategies**
Al Qasr Ballroom
Moderator: Edward Clayton, Principal (Airports), Booz & Co
Presenters/Panelists:
 Abu Dhabi Airports Company
 Executives of ATRS Airport Performance Benchmarking Awards
- 14:30-15:00** **COFFEE/TEA BREAK**
Al Qasr Ballroom Foyer

15:00-16:30 Concurrent Session I

Session I-A Mergers & Alliances (1)
Liwa Ballroom A

Chair: Anming Zhang, University of British Columbia, Canada

1. Developments in European Airline Consolidation, Paper # 247
Benjamin Koch, Lufthansa Aviation Center, Germany
Sascha Albers and Bjoern Goetsch: University of Cologne, Germany
2. The Impact of Liberalization on Alliances and Mergers: EU-US Open Skies, Paper No. 247
Kostas Iatrou and Lida Mantzavinou: Hellenic Aviation Society, Greece
3. Airline ‘No Man’s Land’ The Crisis Faced By Traditional Hub Carriers and How To Escape It, Paper No. 274
Jürgen Ringbeck, Fadi Majdalani and Chris Manning: Booz&co. UAE

Session I-B Airport Planning & Operations (1)
Liwa Ballroom B

Chair: Dr Saleh Mumayiz, Dept of Transport, Emirate of Abu Dhabi

1. Comparative Evaluation of Aircraft Traffic and Air Traffic Control Capacity at Sao Paulo, Paper # 126
Carlos Müller and Derick Moreira Baum: Instituto Tecnológico de Aeronáutica, Brasil
2. The Development of Airport Facilities based on Eco-Airport Concept in Japan and ASEAN Countries , Paper # 273
Sakti Adji Adisasmita: University of Hasanuddin, Indonesia

Session I-C Air Traffic Management (1)
Oakroom

Chair: Dawna Rhoades, Embry Riddle Aeronautical University, USA

1. Study of Aircraft Derived Temporal Prediction Accuracy using FANS, Paper No. 118
Jesper Bronsvort , Greg McDonald: Technology & Asset Services, Australia
Robert Porteus and Ekkehard Gutt: Emirates Airlines, UAE
2. Advances in Air Traffic Management: The Integration of Predictive Weather into ATM Systems, Paper # 276
Dawna Rhoades and Kelly Neville: Embry Riddle Aeronautical University, USA
3. The Effects of Performance-Based Navigation On Air Traffic, Paper # 128;
Alexandre Luiz Dutra Bastos and Cláudio Jorge Pinto Alves: Aeronautical Institute of Technology, Brazil

Session I-D Air Transport & the Environment (1)
Al Qasr Anteroom

Chair: Svein Gudmundsson, Toulouse Business School, France

1. EU-Legislation Tackling Aviation's CO₂ Emissions: Model-Based Empirical Estimation of the Economic and Ecologic Impact of the EU-Emissions Trading Scheme on the International Aviation Sector , Paper # 94
Janina Scheelhaase, Martin Schaefer , Wolfgang Grimme and Sven Maertens:
German Aerospace Center (DLR)
2. Introducing Emission Trading Schemes in the Aviation Industry: Impacts and Reaction Strategies
Jan Vespermann: European Business School (EBS), Germany
3. Impact of Nox Emissions Regulation – Cost Benefit Analysis, Paper #237
Jean Bresson: Ecole Nationale de l'Aviation Civile, France
4. Better Understanding of Airline Carbon Offset Schemes
Risa Morimoto: Toulouse Business School, France

Session I-E Aviation Safety & Security (1)
Terrace Hall

Chair: Yeong-Heok Lee, Korea Aerospace University, Korea

1. An Investigation of Fatigue in Helicopter Emergency Medical Services Accidents, Paper # 209
Shirley Phillips and Jason Goodman: Daniel Webster College, USA
2. Emotional Carry-on Baggage: Another Factor Contributing to the Air Rage Phenomenon, Paper # 129
Joyce A. Hunter: Saint Xavier University, USA
3. A Study of In-flight Emergencies:
Te-Ching Liu, Yueh-Ling Hsu and Chin-Men Yen, Kainan University,
Taiwan

Session I-F Airport Economics (1)
Fahed Hall

Chair: Anne Graham: University of Westminster, UK

1. Proposal for Calculation of Airports Accessibility With Use of Geographical Information Systems, Paper #173
Aurélio Ferreira Braga, Erivelton Pires Guedes and Rogério Pecci Filho:
National Land Transport Agency - (ANTT), Brazil
2. Passenger Demand at Spanish Airports: A Decomposition of Seasonal Concentration, Paper # 10
Nigel Halpern: Molde University College, UK
3. The Dilemma Between Capacity Expansions and Multiairport Systems: Empirical Evidence from the Industry's Cost Function, Paper #69

Juan Carlos Martin and Augusto Voltes-Dorta: Universidad de Las Palmas de
Gran Canaria, Spain

16:30-17:00 **COFFEE/TEA BREAK**
Al Qasr Ballroom Foyer

17:00-18:30 **Concurrent Session II**

Session II-A **Mergers & Alliances (2)**
Liwa Ballroom A

Chair: Martin Dresner, University of Maryland, USA

1. The Airfare Effects of Airline Alliances on Complementary Routes
Li Zou, Tae H Oum, Chunyan Yu: Embry Riddle Aeronautical University,
USA
2. Flying Through Stormy Skies How Airlines Can Navigate the Global
Recession, Paper No. 275
Jürgen Ringbeck and Daniel Röska: Booz&co UAE
3. Scenarios Regarding the Evolution of Configuration of Airport Networks and
Airline Alliances
Rosário Macário and Vasco Reis: Instituto Superior Técnico, Portugal
4. The Qantas-Air New Zealand Failed Trans-Tasman Collaboration Applications:
Ex-Ante Prediction and Ex-Post Realization Financial Analysis
Robert Yaansah: Massey University, New Zealand

Session II-B **Airport Economics (2)**
Liwa Ballroom B

Chair: Eric Pels, Free University of Amsterdam, The Netherlands

1. The Internalization of Airports' Congestion, Paper #701
Juan Carlos Martín and Concepción Román: Universidad de Las Palmas de
Gran Canaria, Spain
2. Optimizing Composition of Flights in Peak Hours at Hub Airports From Market
Competitive Perspective, Paper #261
Jan Veldhuis, Jaap De Wit and Rogier Lieshout: Amsterdam Aviation
Economics, The Netherlands
3. The Perspectives of Recreational General Aviation as a Form of Special Interest
Tourism: A Comparative Case Study of Greece & Spain, Paper #146
Ioulia Poulaki and Andreas Papatheodorou: University of the Aegean, Greece

Session II-C Airline Operations
Oakroom

Chair: Andrew Cook, University of Westminster, UK

1. Disruption Management in Airline Operations: How Situation Awareness Informs Controller Decision-Making, Paper #152
Peter Bruce: Swinburne University of Technology, Australia
2. Airline Irregular Operations and Optimization: the Case of Chinese Carriers, Paper #279
Wei Huang, Xianghui Zhang and Wenjun Wang: Civil Aviation Management Institute of China, China
3. Formal Error Prediction: The Evaluation of Standard Operating Procedures in a Large Commercial Transport Aircraft, Paper #108
Wen-Chin Li: National Defense University, Taiwan
Yueh-Ling Hsu, Danny Chang: Kainan University, Taiwan
Thomas Wang: Aviation Safety Council, Taiwan,
Don Harris: Cranfield University, UK

Session II-D Air Transport & the Environment (2)
Al Qasr Anteroom

Chair: Jean Bresson, ENAC, France

1. Unilateral GHG Control Measure and Aviation Industry: A Theoretical Analysis, Paper #109
Andrew Yuan: The Chinese University of Hong Kong, Hong Kong
Anming Zhang: University of British Columbia, Canada
2. Airline Emission Charges: Effects on Airfares, Service Quality, and Aircraft Design,
Jan K. Brueckner: University of California, Irvine, USA
Anming Zhang: University of British Columbia, Canada
3. A Study on Impact to Korean Aviation Industry of Voluntary CO₂ Offsets Program, Paper #52
Baek-Jae Kim, Kwang-Eui Yoo and Youn Chul Choi: Korea Aerospace University, Korea

Session II-E Aviation Safety & Security (2)
Terrace Hall

Chair: Humaid Al Hameli, Dept of Transport, Emirate of Abu Dhabi

1. Safety Perception of Turkish and European Passengers in Turkish Airports: A Cross-National Comparison, Paper #143
Nuriye Güreş, Halil Demirer, Mehmet Kara and Şenkan Aldemir: Mustafa Kemal University, Turkey

2. Aviation Security – A Structural Complexity Management Approach, Paper #96
Mara Cole, Andreas Kuhlmann and Oliver Schwetje: Bauhaus Luftfahrt,
Germany
3. A Study on the Aviation Safety Policy and Enhancement of Aviation Safety for
Low Cost Carrier in Korea , Paper #62
Kang-Seok Lee: Hanseo University, Korea

Session II-F Human Resource Management & Human Factors
Fahed Hall

Chair: Kostas Iatrou, Hellenic Aviation Society, Greece

1. Work Stress, Job Satisfaction, Organizational Commitment and Turnover
Intentions for Flight Attendants - Evidence from Taiwan, Paper #68
Ching-Fu Chen and Ya-Ling Kao, Cheng Kung University, Taiwan
2. The Relationship Between Psychosocial Risk Factors and Work-Related
Musculoskeletal Disorders Among Flight Attendants, Paper #161
Kai-Hui Lee, China Airlines, Taiwan
Margaret Stewart, RMIT University, Australia
Li-Hua Kao: Chung Yuan Christian University, Taiwan
3. A Study of Airline Purser Selection Criterion of the Civil Aviation Industry,
Paper #174
Te-Chang Liu, Kainan University, Taiwan
Qi-Zhi Shan, China Airlines, Taiwan

Saturday 27th June

**19:00-22:00 GALA DINNER (HOSTED BY DEPARTMENT OF
TRANSPORT)**
Al Qasr Anteroom & Al Qasr Ballroom

Sunday 28th June

08:30-09:00 **PRE-SESSION COFFEE/TEA**
Al Qasr Ballroom Foyer

09:00-10:30 **Concurrent Session III**

Session III-A **Air Transport Policy**
Liwa Ballroom A

Chair: Juan Carlos Salazar, General Civil Aviation Authority, Abu Dhabi

1. Aviation Policy in Transition Economies: The Case of China , Paper #26
Zheng Lei: Cranfield University, UK
2. Liability Regulations in Air Transportation in Turkey, Paper #130
Hulya Goktepe: Anadolu University, Turkey
3. Financial Fitness Tests For Start-up Airlines, Paper #246
David Li, Fatima Al Kaabi, Zain Abdul Naser Al Zubaidi and Paul Hooper:
Dept of Transport, Emirate of Abu Dhabi

Session III-B **Airline – Airport Relationships (1)**
Liwa Ballroom B

Chair: Yimin Zhang, CEIBS, China

1. Airport Monopoly Regulation With Downstream Airline Duopoly and Vertical Product Differentiation, Paper #150
Karsten Fröhlich: University of Applied Sciences Bremen, Germany
2. The Relationship Between Airports and Airlines: An Empirical Analysis of Dimensions and Success Factors, Paper #125
Bjoern Goetsch, Jens Ruele and Sascha Albers: University of Cologne., Germany
3. Vertical Relations Between Airports and Airlines: Is There a Trade-Off Between Welfare and Competitiveness? Paper #2
Cristina Barbot: CETE/ Faculdade de Economia do Porto, Portugal
4. Effects of Airport-Airline Vertical Relationships, Paper #277
Tae Oum: Air Transport Research Society
Xiaowen Fu: Hong Kong Polytechnic University, Hong Kong

Session III-C **Low Cost Carriers (1)**
Oakroom

Chair: Andreas Papatheodorou, University of Aegean, Greece

1. Price Transparency of Low Cost Fares: Is It Really Important? Paper #29
Andrea Salanti and Paolo Malighetti: University of Bergamo, Italy

- Renato Redondi: University of Brescia, Italy
2. Airlines-Within-Airlines Strategies and Entry of Low Cost Carriers, Paper #67
Ming Hsin Lin: Osaka University of Economics, Japan
 3. An Analysis of Corporate Social Responsibility Among Low-Fares Airlines Flying To and From the United Kingdom, Paper #249
Tim Coles and Emily Rader: University of Exeter Business School, UK

Session III-D Air Transport & the Environment (3)

Al Qasr Anteroom

Chair: Linden Coppel, Etihad Airways, Abu Dhabi

1. The Implications of the Ticket Tax at Airports in the Netherlands
Jan Veldhuis and Joost Zuidberg: Amsterdam Aviation Economics, The Netherlands
2. Carbon Taxation Responses in the Aviation Industry
Mehmet Özmen, Monash University, Australia
3. The Environmental Impacts of Increased International Air Transport – Past Trends and Future Perspectives
Eric Pels: Free University of Amsterdam, The Netherlands
4. Will Rapid Growth of the Middle East Air Transport Sector be a New Challenge for Climate Policies?
Annela Anger: University of Cambridge, UK
John F. O’Connell: Cranfield University, UK

Session III-E Aviation Safety & Security (3) – Safety Management Systems

Terrace Hall

Chair: Katsuya Hihara, University of Tokyo, Japan

1. The Study of the Relationship of Mission Statements, Safety Culture, and SMS ,Paper #40
Yi-Hsin Lin: Asia University, Taiwan
2. Risk Rose Implementation in Safety Management System (SMS) Process, Paper #14
Ojia Cokorilo, Slobodan Gvozdenovic and Petar Mirosavljevic: The Faculty for Traffic and Transport Engineering, Belgrade, Serbia
3. Structuring Risk Factors Related to Airline Cabin Safety
Yueh-Ling Hsu, Te-Chang Liu and Wen-Chin Li: Kainan University, Taiwan

Session III-F Airline Management (1)

Fahed Hall

Chair: Blaise Waguespack, Embry Riddle Aeronautical University, USA

1. A Dynamic Programming Algorithm Based on Expected Revenue Approximation for the Network Revenue Management Problem, Paper #58

Kuancheng Huang and Yu-Tung Liang, National Chiao Tung University,
Taiwan

2. There Is No Such Thing As a Fair Price Without Fair Pricing - Perceived Price Fairness of Airline Revenue Management , Paper #16
Mark Friesen: University of St. Gallen, Germany
3. Applying Knowledge Management Techniques to a Decision Support System for Civil Aviation
Djan de Almeida do Rosário: Dígitro Tecnologia Ltda,
Nilton Goldner: AeroPlanos Planejamento e Engenharia de Aeroportos Ltda,

10:30-11:00 **COFFEE/TEA BREAK**
Al Qasr Ballroom Foyer

11:00-12:30 **Concurrent Session IV**

Session IV-A **EU-USA Open Skies**
Liwa Ballroom A

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

1. Muted Reactions – Assessing the Impact of the EU/US Open Skies Agreement
Andreas Eichinger, Wilhelm Drotleff and Tim A. Fongern: European Center of Aviation Development, Germany
2. The EU-US Open Skies Agreement: How Can Its Impact Be Assessed? Paper #1
D.E. Pitfield: Loughborough University, UK
3. Long Term Relationships Between Open Skies Agreements and Passenger Flight Schedules Between US and Europe, Paper #127
Korcan Kavuşan and Terence Fan; Singapore Management University

Session IV-B **Airline – Airport Relationships (2)**
Liwa Ballroom B

Chair: Cristina Barbot, CETE/ Faculty of Economics of Porto, Portugal

1. Frequency, Aircraft Size and Traffic Growth, Paper #229
Yimin Zhang: China Europe International Business School, China
2. Regional Airport Subsidies in the EU – The Case for a More Economic Approach in the Application of the EU's State Aid Rules, Paper #144
André W. Heinemann: University of Bremen, Germany
Andreas Knorr: DHV Speyer, Germany

3. Good Schedules - Good Patterns? The Viability of a Pattern Recognition Algorithm in the Comparative Analysis of Indirect Temporal Connectivity at Amsterdam. Frankfurt and London Stansted Airports
Axel Budde, Guillaume Burghouwt and Jaap de Wit: University of Amsterdam, The Netherlands

Session IV-C Air Traffic Management (2)
Oakroom

Chair: Dieter Wilkin, German Aerospace Center, Germany

1. A Framework for Air Traffic Management System of Iran, Paper #220
Hamidreza Bahramian, Khalil Zamani and Abdolreza Rezaee Arjroody:
Research Associate of Transportation Research Institute, Iran
2. Prospects of Air Traffic Management in South-East Europe, Paper #199
Sanja Steiner, Tomislav Mihetec and Ana Božičević: University of Zagreb,
Croatia
3. Single European Sky Impact on South East European Aviation
Dejan Devic: LMG Consulting

Session IV-D Air Transport & the Environment (4)
Al Qasr Anteroom

Chair: Sgouris Sgouridis, Masdar Institute of Science and Technology

1. Airlines Business Models: Evolution and Their Impact on the Carbon Efficiency of Air Transport in the Intra-EU Market, Paper #131
Chikage Miyoshi and Keith Mason: Cranfield University, UK
2. Successful Airline Strategies in a Carbon-Constrained Future: Scenario Analysis for Investigating the Options, Paper #192
Sgouris Sgouridis: Masdar Institute of Science and Technology
3. Determination of the Global Warming Based Sustainability Costs and Benefits for Civil Aviation Business Organizations: Consideration the Risk Management Approach, Paper #78
Triant Flouris: Daniel Webster College, USA
Ayse Kucuk Yilmaz: Anadolu University, Turkey
4. Sustainability of Airports: An Assessment of the Potential of Alternative Fuels, Paper #6
Milan Janic: Delft University of Technology, The Netherlands

Session IV-E Air Cargo & Logistics
Terrace Hall

Chair: Joel Shon, Tainan University of Technology, Taiwan

1. Air Freight Economics. Survival of the Fittest? Paper #139

Franziska Kupfer, Hilde Meersman, Evy Onghena and Eddy Van de Voorde:
University of Antwerp, Belgium

2. Development of Air Freight – Indicators of Influence on World Trade – An Empirical and Analytical Study, Paper #83
Stephan Horn and Peter Meincke: German Aerospace Center, Germany
3. Economic Analysis of Automated Storage and Retrieval System At Brazilian Air Cargo Terminal, Paper #142
Luiz Antonio Tozi, Carlos Muller, Anderson Correia, Rogério Harada and Fabio Muraoka: Instituto Tecnológico de Aeronáutica, Brazil
4. Systematizing Air Cargo Routing Options for an Exhaustive Supply Network Modeling, Paper #50
Florian M. Heinitz: FH Erfurt University of Applied Sciences, Germany
Peter A. Meincke, German Aerospace Center, Germany

Session IV-F Airline Management (2)

Fahed Hall

Chair: Alessandro Borgogna, Booz & co

1. Systematic-Risk and Value Determinants in the Aviation Industry, Paper No. 53
Paolo Malighetti, Michele Meoli and Stefano Paleari: University of Bergamo, Italy
Renato Redondi: University of Brescia, Italy
2. Implications for Strategy Formulation By Using Sustainable Growth Model, Paper No. 211
Yu-Chun Chang, Chia-Jui Hsu and Hui-Kee Woon: National Taiwan Ocean University, Taiwan
3. Older Passengers as an Increasingly Important Customer Group for Airlines, Paper No. 207
Hansjochen Ehmer: German Aerospace Center (DLR), Germany
Claudine Mischel: International University of Applied Sciences Bad Honnef – Bonn, Germany

12:30-14:00 LUNCH
Al Qasr Ballroom

14:00-15:30 Concurrent Session V

Session V-A Air Transport Development (1)
Liwa Ballroom A

Chair: Aysha Al Hamili, General Civil Aviation Authority, Abu Dhabi

1. Alitalia - The Political Economy of a Failing National Carrier, Paper No. 59
Paolo Beria: DiAP - Politecnico di Milano

Hans-Martin Niemeier: University of Applied Sciences, Germany

2. Capturing Advantage from Changing Circumstances – Or Not. The Shackles of Path Dependent Learning on ASEAN Airlines, Paper No. 15

Ian Douglas: University of New South Wales, Australia

3. Airline Services in Nigeria: An Empirical Analysis, Paper No. 105

Ogunkoya Adeniyi: Redeemer's University, Nigeria

4. The Impact of Competition on Airline Profits in the Philippines, Paper # 54

Wilfred Sebastian Manuela Jr.: Asian Institute of Management, Philippines

Session V-B Airport Economics (3)

Liwa Ballroom B

Chair: Chaouki Mustapha, ICAO

1. Hubs Versus Airport Dominance, Paper No. 223

Volodymyr Bilotkach: University of California, Irvine, USA

Vivek Pai: Deloitte, USA

2. Business Aviation in Germany: An Empirical and Model-Based Analysis, Paper No. 84

Peter Berster, Marc Ch. Gelhausen and Dieter Wilken: German Aerospace Center (DLR), Germany

3. The Economic Effects of Displacing Flights from a Major National Airport to Secondary Airports: a Dutch Case Study, Paper No. 255

R.B.T. Lieshout: Amsterdam Aviation Economics / SEO Economic Research, The Netherlands

4. The Airport Network of the Iberian Peninsula: Analysis of Recent and Planned Developments, Paper No. 254

Álvaro Costa and Diana Silva: FEUP, Portugal

António P. Antunes and Miguel G. Santos: University of Coimbra, Portugal

Session V-C Airline – Airport Marketing (1)

Oakroom

Chair: Keith Mason, Cranfield University, UK

1. Customer Value as a Framework for Analyzing Customer Services: the Airline Industry as a Case, Paper No. 3

Tina Boetsch: Swiss International Airlines, Switzerland

Thomas Bieger and Andreas Wittmer: University of St. Gallen, Switzerland

2. Customer Value Factors of Very Light Jet Air Taxi Passengers - The Case of Switzerland, Paper No. 20

Andreas Wittmer and Tim Böttger: University of St. Gallen, Switzerland

3. Building Airline Passenger Loyalty Through an Understanding of Customer Value: A Reverse Value Segmentation of the Trans-Atlantic Market, Paper # 243

Ryan Leick: Dowling College, USA

4. Evaluating Frequent Flyer Programs From the Air Passengers' Perspective: Prospects for Market Segmentation, Paper No. 71

Juan Carlos Martín, Concepción Román and Raquel Espino: Universidad de Las Palmas de Gran Canaria, Spain

Session V-D Air Transport & the Environment (5)

Al Qasr Anteroom

Chair: Wolfgang Grimme, German Aerospace Center, Germany

1. Long Term Scenarios on Aviation and Oil Availability, Kerosene Reduction Technologies: Paper No. 79

Dieter Wilken: German Aerospace Center (DLR), Germany

2. Implementing Alternative Fuels in Aviation - A Scenario Based Analysis of Demand, Supply and Relevant Implications, Paper No. 99

Stephan Naundorf and Christian Kelders: Bauhaus Luftfahrt e.V., Germany

Peter Phleps and Stephan Eelman: Technische Universität München, Germany

3. The Cost of Fuel Consumption Increase to Airline: An Assessment of the ACRE Pollution Standards, Paper No. 75

Petar Mirosavljević, Slobodan Gvozdenovic and Olja Cokorilo: University of Belgrade, Serbia

4. The 2008 High Oil Price Impacts on the Air Transport Sector in Europe: A Comparison With Carbon Price Effects, Paper No. 163 not available on USB

Annela Anger: University of Cambridge, UK

Peter Allen: Cranfield University, UK

Session V-F Airline Management (3)

Fahed Hall

Chair: Christian Hofer, University of Arkansas, USA

1. The Cost of Delay to Air Transport in Europe – Quantification and Management, Paper No. 107

Andrew Cook and Graham Tanner: University of Westminster, UK

Radosav Jovanović: University of Belgrade, Serbia

Adrian Lawes: Consumerdata Ltd

2. An Investigation Into Different Systems of Airline Service Quality, Paper # 179

Blaise P. Waguespack and Dawna Rhoades: Embry Riddle Aeronautical University, USA

3. Reviewing the Concept of Airline Performance : The Case of Air France-KLM,
Paper No. 185
François Domergue and Thierry Debergé: Insec Business School, France

15:30-16:00 **COFFEE/TEA BREAK**
Al Qasr Ballroom Foyer

16:00-17:30 **Concurrent Session VI**

Session VI-A **Air Transport Development (2)**
Liwa Ballroom A

Chair: Victor Ujimoto, University of Western Ontario, Canada

1. The Development of Airline Networks Served by Hubs in the GCC Region,
Paper No. 97 – not available for distribution
Paul Hooper, Chris Moore and Zain Al Zubaidi: Emirate of Abu Dhabi
Department of Transport
2. The Growth of Arabian Airlines from a German Perspective - A Differentiated
Analysis of the Impacts of New Air Services to Asia, Paper No. 90
Wolfgang Grimme: German Aerospace Center (DLR), Germany
3. The Rise of the Arabian Gulf Airlines: An Insight Into Emirates' Core
Competencies that Are Contributing to Its Twenty Year Cycle of Profits, Paper
No. 180
John F. O'Connell: Cranfield University, UK

Session VI-B **Airport Choice Decisions**
Liwa Ballroom B

Chair: Juan Carlos Martín: Universidad de Las Palmas de Gran Canaria, Spain

1. Airport Choice and Capacity Constraints:A Multi-Level Approach, Paper # 83
Marc Ch.Gelhausen: German Aerospace Center (DLR), Germany
2. Modeling Air Itinerary Choice in Small Markets, Paper No. 210
Ali Rezaie: Sharif University of Technology, Iran
3. A Study on Airport Access Mode Choice Behavior, Paper No. 4
Rong-Chang Jou and Tzu-Lan Hsu: National Chi Nan International University
Chih-Cheng Chen: Yuan Ze University , Taiwan

Session VI-C **Airline – Airport Marketing (2)**
Oakroom

Chair: Triant Flouris, Daniel Webster College, USA

1. Customer Relational Benefits and Loyalty – An Empirical Study of Airline
Customers in Taiwan, Paper No. 112

Fang-Yuan Chen: Feng-Chia University , Taiwan

Yu-Hern Cheng: National Cheng-Hung University, Taiwan

2. Key Factors That Should Be Included in an Airline Brand Equity Evaluation Model, Paper No. 197

Keith Mason and Konstantinos Kalligiannis: Cranfield University, Taiwan

3. The Effects of Online Service Quality on Consumer Satisfaction and Loyalty Intention -About Booking and Issuing Air Tickets on Websites, Paper No. 235

Seung Chang Lee: Korea Aerospace University, Korea

4. An Analysis of The Relationship between Passenger Loyalty and Consumer Buying Behaviour for Network and Low-Cost Carriers, Paper No. 283

Keith Mason and Juliano Chacon: Cranfield University, UK

Session VI-D Air Transport & the Environment (6)

Al Qasr Anteroom

Chair: To be advised

1. Impact of Aircraft Noise at Cagliari-Elmas Airport On Human Environment, Paper No. 76

R. Devoto, M. Fantola and N. Rasso: University of Cagliari

2. Noise Budgets at European Airports – an Economic Evaluation, Paper No. 269

Frank Borcharding and Hansjochen Ehmer: International University of Applied Sciences Bad Honnef – Bonn, Germany

Hans-Martin Niemeier: University of Applied Sciences, Germany

3. The Economic Benefits and Social Costs of Airport Development – An Example of Taiwan Taoyuan International Airport, Paper No. 167

Cherie Lu, Szu-Yin Liu and Celia Mak: Chang Jung Christian University

4. Climate Change and International Air Freight, Paper No. 231

Paul W. Forster and Simson Demmer: Hong Kong University of Science & Technology

Session VI-E Airport Planning & Operations (2)

Terrace Hall

Chair: Erico Santana, Abu Dhabi Airport Company, UAE

1. Designing Engineered Material Arresting System for Restricted Airport Sites, Paper No. 205

Adival Magri Jr. and Alexandre Gomes de Barros: National Civil Aviation Agency – Brazil

2. A Simulation Model for Runway Capacity Analysis Applied to the Sao Paulo International Airport, Paper No. 110

German Alberto Barragan De Los Rios and Claudio Jorge Pinto Alves:
Technological Institute of Aeronautics, Brazil

3. Brazilian Methodology to Calculate Airport Operational Runways Capacity,
Paper No. 106
Hygino Rolim : CTCEA,
Jose Vital: CGNA

Session VI-F Network Development (1)
Fahed Hall

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

1. Redesigning Iran's Air Transportation System: A Systems Thinking Approach,
Paper No. 65
Mahmoud Saffarzadeh and Taha Fehri: Tarbiat Modarres University, Iran
Alireza Mehri: Mazandran University of Science & Technology, Iran
2. Estimation of Route Choice Probabilities and Market Shares at Major Hub
Airports With Regard to Passengers Departing From Japan, Paper No. 115
Hidenobu Matsumoto: Kobe University
Rogier Lieshout: Amsterdam Aviation Economics / SEO Economic Research
Jan Veldhuis and Jaap de Wit: Amsterdam Aviation Economics
3. Impacts of Liberalization in the North-East Asian Passenger Market, No. 281
Nicole Adler,
Xiaowen Fu: Hong Kong Polytechnic University
Tae Hoon Oum: Air Transport Research Society
Chunyan Yu: Embry-Riddle Aeronautical University

Monday 29th June

08:30-09:00 PRE-SESSION COFFEE/TEA
Al Qasr Ballroom Foyer

09:00-10:30 Concurrent Session VII

Session VII-A Air Transport Development (3)
Liwa Ballroom A

Chair: Eddy Van de Voorde: University of Antwerp, Belgium

1. Financial Crisis and Aviation Leasing Market: The Emergence of China, Paper # 48
Darcy Olmos-Mancilla: AirBusiness Academy
2. The Cross-Culture Consumer Values and Purchase Behavior in the Airport
Commercial Area, Paper No. 44

Shiaw-Wuu Perng and Chien-Nan Wu: Kainan University, Taiwan

3. The Comparisons of the Shopping Satisfaction and the Retailing Stores Between International Airports: Paper No. 232

Shiaw-Wuu Perng, Chia-Chuan Chow and Chan Ting Tuo: Kainan University

4. Who Is a Better Spokesperson of an Airline? A Super Model or a Cartoon Character?, Paper No. 60

Yen-Heng Chen: National Chiao Tung University, Taiwan

Joel Zhengyi Shon: Tainan University of Technology, Taiwan

Dung-Ji Chen: Tamkang University, Taiwan

Session VII-B Airport Ownership and Economic Oversight

Liwa Ballroom B

Chair: Ray Kaduck, Canadian Transportation Agency, Canada

1. Regulation ADP Airports - An Economic Assessment, Paper No 171

Hans-Martin Niemeier: University of Applied Sciences, Germany

Peter Forsyth: Monash University, Australia

Jürgen Müller: Berlin School of Economics, Germany

Harald Wiese: University of Applied Sciences Bremen, Germany

2. Diagnosis of the Brazilian Airport System and the Alternatives for Its Privatization, Paper No. 148

Dorieldo Luiz dos Prazeres, Leonardo Lúcio Esteves and Rogério Pecci Filho:
National Civil Aviation Agency, Brazil

Session VII-C Airline Economics (1)

Oakroom

Chair: Terence Fan, Singapore Management University

1. The Effect of Belly Cargo Volumes on Passenger Fares: Evidence From The U.S. Domestic Airline Industry,

Christian Hofer and Cuneyt Eroglu: University of Arkansas, USA

2. Airline Pricing Strategies Versus Consumer Rights - Is There a Need To Maintain the “Full and Sequential Use of Flight Coupons”-Rule?, Paper No. 32

Gregor Bischoff, Sven Maertens and Wolfgang Grimme: German Aerospace Center (DLR), Germany

3. Spectrum of Competitiveness of Passenger Airlines on Air Cargo Market, Paper No. 204

Vasco Reis and Rosário Macário: Instituto Superior Técnico, Portugal

4. Pricing Strategies in European Airline Markets: A Case Study on the Route London-Amsterdam, Paper No. 268

Marco Alderighi: Università della Valle d'Aosta, Italy

Allesandro Cento: Air France - KLM Royal Dutch Airlines

Claudio Piga: Università della Valle d'Aosta,

Session VII-D Low Cost Carriers (1)

Al Qasr Anteroom

Chair: Narjess Teyssier, ICAO

1. The Rationale Behind Airports Selection of European Low Cost Carriers, Paper No. 27
Kent Lumsden, Muhammad Taimur Uddin, Junaid Arshad and Gunnar Stefansson: Chalmers University of Technology
2. Regional Structure Based on the International Network Network of Low Cost Carriers in Asia: A Comparison With Full Service Carriers, Paper No. 177
Koichi Tanaka: University of Tokushima, Japan
3. The Struggling of New Comers in South Korean Airline Industry, Paper #155
Hew Jong Choi: Kyungin Women's College, Korea
Cheng-Lung Wu: The University of New South Wales, Australia

Session VII-E Airport Planning & Operations (3)

Terrace Hall

Chair: Mubarak Ibrahim Al Nakhi, Dept of Transport, Emirate of Abu Dhabi

1. Airport Protection – Planning & Politics: The Case of Christchurch International Airport, New Zealand, Paper No. 212
Christopher Kissling and Zhao Gao: Lincoln University, New Zealand
2. Designing the Aerodrome Certification Authority within Civil Aviation Organization, Paper No. 189
Pedram Keshavarzian and Rouzbeh Yousefi: Arapi System Engineering Consultants
Hamid Reza Bahramian: Transport Research Institute, Iran

Session VII-F Network Development (2)

Fahed Hall

Chair Shinya Hanaoka, Tokyo Institute of Technology, Japan

1. The Competitive Analysis of Airport Hubbing as an International Logistics Center-Focus on Major Airports in Asia, Paper No. 227
Seock-Jin Hong: Bordeaux Management School, France
Ji-Young Han: University of Incheon, Korea
2. Hub Competition and Travel times in the World-Wide Airport Network, Paper #38
Stefano Paleari and Malighetti Paolo: University of Bergamo, Italy
Renato Redondi: University on Brescia, Italy
3. On the Optimum Expansion of Airport Networks, Paper No. 224
Miguel G. Santos and António P. Antunes: University of Coimbra, Portugal

10:30-11:00 **COFFEE/TEA BREAK**
Al Qasr Ballroom Foyer

11:00-12:30 **Concurrent Session VIII**

Session VIII-A The Economic Significance of Aviation
Liwa Ballroom A

Chair: Paul Hooper, Dept of Transport, Emirates of Abu Dhabi

1. The Impacts of GATS Annex on Air Transport Services Coverage Expansion, Paper No. 43
Xingwu Zheng, Lingxiang Zhang and Wei Lu: Civil Aviation University of China
2. Determination of Statewide Economic Benefits of Civil and Commercial Airports in Arizona, Paper No. 186
Javad Gorjidoz and Bijan Vasigh: Embry-Riddle Aeronautical University,
3. International Trade Rules and Aircraft Manufacturing: Will the World Trade Organization Resolve the Airbus-Boeing Dispute?, Paper No. 264
Jörg Bellmann, Rahel Schomaker and Andreas Knorr: German University of Administrative Sciences Speyer
4. Estimating Effects of Airport Capital on Economic Growth in Germany, Paper No. 135
Florian Allroggen and Robert Malina: University of Muenster, Germany

Session VIII-B Airport Performance (1)
Liwa Ballroom B

Chair: To be advised

1. Metafrontier Malmquist Comparison of US and UK Airports, Paper No. 102
Albert Assaf and Peter Forsyth: Victoria University, Australia
2. Capacity Measurements in Airport Sector: Drawbacks of Conventional Methods and Benchmarking Airports Using Declared Capacity, Paper No. 251
Tolga Ülkü: Berlin School of Economics, Germany

Session VIII-C Airline Economics (2)
Oakroom

Chair: Xiaowen Fu, Hong Kong Polytechnic University

1. Airlines' Behavior for Choice of Aircraft Size and Network Design: Bi-Level Model, Paper No. 140
Mikio Takebayashi: Kobe University, Japan
2. Dynamic Effect of Low-Cost Entry on Conduct Parameter and Total Welfare, Paper No. 117
Hideki Murakami: Kobe University, Japan

3. Frequent Flier Programs, Taxes and Gains:-Formalizing the Impact of Award Tax Exemptions on Airline Revenue, Wages and Employer Profits, Paper No. 132 – not available for distribution
Nathalie C. McCaughey, Monash University, Australia
Achim I. Czerny: WHU – Otto Beisheim School of Management, Germany
Peter J. Forsyth: Monash University, Australia
4. Aggressive Growth and *de Novo* Airline Survival, Paper No. 253
Terence Fan: Singapore Management University

Session VIII-D Low Cost Carriers (2)

Al Qasr Anteroom

Chair: Andreas Knorr: DHV Speyer, Germany

1. Low-Cost Carriers in Eastern Europe - Sky Europe vs. WIZZ Air,
Silvia Rucinska: Pavol Jozef Šafárik University of Košice
Andreas Knorr: DHV Speyer, Germany
2. Cross Price Elasticity Measures Between Air Fares and Preferences of Business and Leisure Passengers on Low Cost Airport Terminals (LCTs) Development, Paper No. 85
Rohafiz Sabar and Rodney Fewings: Cranfield University, UK
3. Passenger Satisfaction of Low-Cost Carriers Terminal, Kuala Lumpur International Airport, Paper No. 153
Shinya Hanaoka: Tokyo Institute of Technology, Japan
Hajime Inamura: Tohoku University, Japan
Teruo Ohi: Pacific Consultants

Session VIII-E No Session Planned

Terrace Hall

Session VIII-F Network Development (3)

Fahed Hall

Chair: Nicole Adler

1. Fragmentation of North Atlantic and Transpacific Air Transport Markets – Wither the Hubs?, Paper No. 89
Andreas Knorr: DHV Speyer, Germany
Andreas Arndt: European Center for Aviation Development, Germany
Alexander Eisenkopf: Zeppelin University
2. Airline Network Structures and Development Strategies, Paper No. 134
Mark Azzam: Technische Universität Darmstadt, Germany
Eva-Maria Cronrath: European Center for Aviation Development, Germany

3. Assessment of Spatial Network Configuration for Cargo Airlines, Paper # 137
Aaron B. Scholz: Universitaet Karlsruhe, Germany

12:30-14:00 **LUNCH**
Al Qasr Ballroom

14:00-15:30 **Concurrent Session IX**

Session IX-A **Air Transport & Tourism**
Liwa Ballroom A

Chair: Lawrence Franklin, Abu Dhabi Tourism Authority

1. The Impact of Indian Air Transport Developments on UK-Indian Tourism,
Paper 47 - For presentation only
Anne Graham: University of Westminster, UK
2. Economic Catalytic Impacts of Air Transport in Germany: The Influence of
Connectivity by Air on Regional Economic Development, Paper No. 100
Andreas Arndt, Thomas Braun, Andreas Eichinger and Holger Pansch:
European Center for Aviation Development, Germany
3. Air Policy and Incoming Tourism Demand: The Cases of the Caribbean
Community and the Middle-East, Paper No. 164
David Warnock-Smith: University of Huddersfield
John F. O'Connell: Cranfield University, UK

Session IX-B **Airport Performance (2)**
Liwa Ballroom B

Chair: Chunyan Yu, Embry Riddle Aeronautical University, USA

1. Assessing and Managing the Value of Airports, Paper No. 46
Hans-Arthur-Vogel: Emirates Aviation College
Anne Graham: University of Westminster, UK
2. A Fast and Simple Model for a Quick Scan of Airport Performance, Paper #119
J.H. Kwakkel, R.A.A. Wijnen, W.E. Walker and V.A.W.J. Marchau: Delft
University of Technology, The Netherlands
3. The Importance Level of Effective Factors on Airport Efficiency and Level of
Services, Paper 170
Mahmoud Saffarzadeh, Shahab Hassanpour, Majid Zabihi Tari and Yashar
Zeinali Farid: Tarbiat Modares University, Iran
4. Empirical Analysis for Relationship between Ownership and Managerial
Performance of Regional Airports in UK
Muneki Yokomi: Osaka University of Commerce, Japan

Session IX-C Air & Rail Competition
Oakroom

Chair: To be advised

1. The Effect of High-Speed Rail On Airlines' Behaviour: A Theoretical Analysis, Paper No. 133 – not available for distribution
Christiaan Behrens and Mark Lijesen: VU University, The Netherlands
2. Intermodal Competitive Dynamics in European Passenger Transportation, Paper No. 234
Caroline Heuermann: TUI Deutschland GmbH, Germany
Sascha Albers: University of Cologne, Germany

Session IX-D Air Transport Demand Forecasting
Al Qasr Anteroom

Chair: Humaid Al Hameli, Dept of Transport, Emirate of Abu Dhabi

1. The Impact of Flight Delays on Passenger Demand and Yields in the U.S. Airline Industry, Paper 104
Rodrigo Britto and Martin Dresner: University of Maryland, USA
2. Consumer Confidence Index Impact On Air Travel Demand Forecast Accuracy In the European Market, Paper 265
Narjess Teyssier: International Civil Aviation Organization
3. Studying the Latent demand for Domestic Regional Air Transport in Iran, Paper No. 190
Pedram Keshavarzian and Shahrokh Zohrabzadeh Bozorgi: Arapi System Engineering Consultants

Session IX-E No Session Planned
Terrace Hall

Session IX-F Network Development (4)
Fahed Hall

Chair: To be advised

1. A Network View on Air Transport – Methodological and Conceptual Foundations, Paper 91
Simon Herkenhoener and Andreas Wald: European Business School (EBS)
2. New Routes and Airport Connectivity, Paper No. 41
Paolo Malighetti and Stefano Paleari: University of Bergamo, Italy

- Renato Redondi: Department of Mechanic Engineering, University on Brescia
3. Optimization Model for Air Traffic Network Design, Paper 241
João P. Pita and António P. Antunes: University of Coimbra, Portugal
 4. Dreaming of New York and Dubai – Should Secondary Airports Extend Their Runways to Attract Long Haul Flights?, Paper No. 21
Sven Maertens: German Aerospace Center (DLR), Germany

15:30-16:00 **COFFEE/TEA BREAK**
Al Qasr Ballroom Foyer

16:00-17:30 **Closing Plenary Session**
Liwa Ballroom A

Tuesday 30th June

POST CONFERENCE TOUR

(TOUR FULL - PRIOR RESERVATIONS ONLY)