THURSDAY, 30 JUNE 2011

CONCURRENT SESSION 1 (THURSDAY, 30 JUNE, 13:30 – 15:00)

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

134 Ayudh Nakaprasit, Keith J. Mason - Cranfield University, UK
An Investigation of Airline Brand Equity

23 Shih-Yao Kuo, Shu-Chuan Chen - Aletheia University, Taiwan
The effect of service quality, perceived value, satisfaction, brand equity and brand preference on air passengers’ behavioral intentions

2 Andreas Wittmer - University of St. Gallen, Switzerland
Impact of an Economic Crisis on the Role of Mileage Programs and the Passengers' Choice of an Airline

47 Berendien Lubbe, Anneli Douglas, Lesley Wieme - University of Pretoria, South Africa
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20 Christian Hofer - University of Arkansas, USA
On Airline Pricing Behavior During The Downturn And Recovery Phases Of Financial Turnarounds

129 Christiaan Behrens, Nathalie C McLaughrey - VU Amsterdam, Netherlands
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Martin Peter Moses, Thomas Simms  
Embry Riddle Aeronautical University, USA  
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University of Oxford, UK
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185  Cherie Lu, Peter Morrell  
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Four Winds Consulting, USA
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70 Annela Anger  
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Technical University of Madrid, Spain  
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National Cheng Kung University, Taiwan  
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University of Maryland Eastern Shore, USA  
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Safety & Quality Assurance Specialist, Iran  
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29 Jana Schroeder 
_Brisbane Airport Corporation Pty Ltd, Australia_
_Curfews at international airports - a study of current practice_

57 Andreas Deutschmann 
_German Aerospace Center, Germany_
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245 Mahmoud Saffarzadeh, Poorya Zanganeh Ranjbar, Shahab Hassanpour, Babak Mirbaha 
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FRIDAY, 1 JULY 2011

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_Daily Demand Distribution & Flight Programme Attractiveness For The Passengers On A City Pair_

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_Airport ground access mode choice behavior for elderly air passengers_

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318 Emine Yetiskul, Metin Senbil 
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**Chair:** Cristina Barbot, University of Porto, Portugal

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**Chair:** Robert Windle, University of Maryland, USA

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**Chair:** Annela Anger, University of Cambridge, UK

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Ioannis P. Rasoglou
Aristotle University of Thessaloniki, Greece
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Ministry of Transportation and Communications, Taiwan
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Yuichiro Yoshida
National Graduate Institute for Policy Studies, Japan
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Zain Al Zubaidi, Ahmed Al Ameri, Fatima Al Kaabi
Emirate of Abu Dhabi Department of Transport, UAE
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Andreas Eichinger
FRAPORT AG, Germany
Andreas Knorr
German University of Administrative Sciences Speyer, Germany
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Nadine Roth
University of Canterbury, New Zealand
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Chair: Anthony Chin, National University of Singapore, Singapore

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Chair: Christian Hofer, University of Arkansas, USA

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<td>A Framework for Measuring Airline’s Strategic and Structural Convergence</td>
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<td>Somchai Pathomsiri, Mahidol University, Thailand</td>
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<td>Econometric Analysis Of Airfare Pricing In Thai Domestic Market With The Presence Of Low Cost Carrier Services</td>
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SESSION 5C – MERGER AND ALLIANCE - CIVIL ENG G1

Chair: Blaise Waguespack, Embry Riddle Aeronautical University, USA
Mergers and Acquisitions in Aviation – Management Perspectives and Econometric Evidence on the Size of Airlines

A network-based investigation of the options for reviving air cargo alliances

Strategic Airline Alliances: Advantages For Major Airlines Being Aligned

The Age of Virtual Alliances

SESSION 5D – AIRPORT ECONOMICS I - : HK ALUMNI

Chair: Xiaowen Fu, Hong Kong Polytechnic University, China

Airport pricing and capacity decisions under imperfect competition

Landing Fees in Portuguese Airports: Proposal for a Scheme based on Marginal Costs of Runways Use

Vertical Collusion Between Airports And Airlines: An Empirical Test For The European Case

A Europe-wide approach for the estimation of airport market power

SESSION 5E - HUMAN FACTORS I - : RONALD LU

Chair: Brett Molesworth, University of New South Wales, Australia

Measuring Ability to Adapt to the Stress Caused by Centrifuge Equipment for Taiwanese Military Aircrews

A Study of Job Stress and Turnover Tendency among Air Traffic Controllers –The Mediating Effects of Job Satisfaction and Job Performance

Measuring the Effects of Automation on Human Motor Responses
Modeling and analysis of grouping behavior in air traffic controller communication activities

Walter Nogueira Pizzo, Paulo Sérgio Cugnasca
University of São Paulo, Brazil

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122 Kay Plötner, Philipp Wesseler, Peter Phleps
Bauhaus Luftfahrt e.V., Germany
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187 Sze-Wei Chang
China University of Science and Technology, Taiwan
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217 Khalil Zamani, Hamidreza Bahramian
Transportation Research Institute, Iran
Alireza Giyahi
Pars Masir Gostar Consultant Engineers, Iran
Requirements for Implementing Integrated Airport Management in Iran

59 Wai Hong Kan Tsui, Hatice O. Balli, Hamish Gow, Andrew Gilbey
Massey University, New Zealand
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Chair: Hans-Martin Niemeier, University of Applied Sciences Bremen, Germany

289 Natalia Roj, Dr. Keith Mason
Cranfield University, UK
Kostas Iatrou
Hellenic Aviation Society, Greece
Are the “Open Skies” agreements pillars for the future of aviation? Analysis of the liberalised air transport market between the EU and USA – case study of London Heathrow

320 Alan Khee-Jin Tan
National University of Singapore, Singapore
The Air Transport Agreement Between The Asean States And China: Breaking New Ground?

310 Tarryn Kille, Paul Bates, Patrick Murray
Griffith University, Australia
The Impact Of Government Policy On Regional Aviation

137 Sui-Ling Li
National Penghu University of Technology and Science, Taiwan
A Fuzzy Multi-Objective Programming Of Flight Quota Allocation Between Cross-Strait Air Routes

CONCURRENT SESSION 6 (FRIDAY, 1 JULY 2011, 15:45 – 17:15)
SESSION 6B – LOW COST CARRIERS AND AIRLINE COMPETITION II: GALLERY 1

Chair: Keith Mason, Cranfield University, UK

158  Tomohiko Kawamori, Ming Hsin Lin  Osaka University of Economics, Japan
     **Airline Alliances with Low Cost Carriers**

148  Mikio Takebayashi  Kobe University, Japan
     **Low Cost Carrier’s Network Design Strategy: Model Analysis**

11  Gui Lohmann  Southern Cross University, Australia
     **The Airline Business Model Spectrum**

308  Ki-Chan PARK, Jeong-Tae LEE, Tae Seung KIM  Inha University, South Korea
     **The Development Strategies for the Korean Low Cost Carriers**

SESSION 6C – AIRLINE OPERATION I  CIV ENG G1

Chair: Cheng-Lung Wu, University of New South Wales, Australia

21  Li Weigang  University of Brasilia, Brazil
    Daniel Li  Duke University, USA
     **International Standard Aviation Collection Code (ISACC) and Information Management Systems**

102  Dr. Peter J. Bruce  Swinburne University of Technology, Australia
     **The importance of expertise in managing airline operational disruptions**

81  Chien-Yuan Huang, Ta-Chung Wang  National Cheng-Kung University, Taiwan
     **Gradient Methods for Binary Integer Programming for Problems in Aviation Industry**

251  Kevin H.-J. Lin, Mark Azzam,  Technische Universität Darmstadt, Germany
    Uwe Klingauf  ECAD GmbH, Germany
     **An Evaluative Comparison Of The BTS T-100 And OAG Database Through Data Mining**

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Chair: Kenneth Button, George Mason University, USA

113  Malighetti Paolo, Paleari Stefano, Renato Redondi  University of Bergamo, Italy
     **Airports traffic performance and catchments area in Europe**

223  Yi-Shih Chung, Wen-Chien Yeh  Kainan University, Taiwan
    Jinn-Tsai Wong  National Chiao Tung University, Taiwan
     **Competition And Cooperation Between Two Neighboring Airports In Northern Taiwan**

5  Cristina Barbot, Carlos F. Alves  Universidade do Porto, Portugal
     **Does market concentration of downstream buyers squeeze upstream suppliers’ market power?**

33  Juan Luis Jiménez, Ancor Suárez  University of Las Palmas de Gran Canaria, Spain
     **Management, political and institutional drivers of airport quality**
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Chair: Victor Ujimoto, University of Guelph, Canada

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CLLE-ERSS1 & University of Toulouse-le-Mirail, France
ENAC, France
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Hanseo University, South Korea
A Study on the impact of human factors for the Student Pilot's in ATO

236 Ricardo Alexandre Veiga Gimenes, Jorge Rady de Almeida Junior
Safety Analysis Group, School of Engineering, Brazil
Human Factors Associated With UAV In A Non-Segregated Air Navigation System

229 I.K. Dabipi, Joseph Dodoo, J. Bryan Burrows-McElwain, Chris Hartman
University of Maryland Eastern Shore, USA
Influences of technology on cockpit scan: A case study of undergraduate flight students

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Chair: John Black, University of New South Wales, Australia

201 Robert Freestone
University of New South Wales, Australia
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28 Uttam Kumar Regmi, Nigel Halpern
Molde University College, Norway
What's in a name? Global analysis of airport brand names and slogans

177 Alexandre G. de Barros, Lily Hu, Richard Tay
University of Calgary, Canada
University of Toronto, Canada
LaTrobe University, Australia
Influence Of Geographic Location And Local Demand On The Attractiveness Of Airports To Transfer Traffic

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Chair: Michael Li, Nanyang Technological University, Singapore

6 Yeong Heok Lee, Jae Woon Lee
Korea Aerospace University, South Korea
Northeast Asian open skies: lessons to be learned from other single aviation markets

189 Araya Sakburanapech
Kasetsart University, Thailand
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128 Tobias Huld
University of Muenster, Germany
International Bilaterals As Barriers To The Formation Of Efficient Airline Size By Mergers And Acquisitions

Koki Nagata  
University of Maryland, USA

An Integrated Air Transport Market for China, Japan and Korea–III

SATURDAY, 2 JULY 2011

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Chair: Bijan Vasigh, Embry Riddle Aeronautical University, USA

44 Juan Carlos Martin, Héctor Rodríguez-Déniz, Augusto Voltes-Dorta  
University de Las Palmas de Gran Canaria, Spain

The impact of the economic downturn on airports’ cost efficiency

75 Clement Kong Wing Chow, Michael Ka Yiu Fung  
Lingnan University, Hong Kong

Estimating the Malmquist Productivity Index of Airports in Greater China: A Parametric Output Distance Function Approach

292 Hun-Koo Ha, Anming Zhang, Yuichiro Yoshida  
Inha University, South Korea

Factors of Efficiency Performance Changes in Major Northeast Asian Airports

321 Nobuo Akai and Munekatsu Usami  
Osaka University, Japan

Financial Analysis of Airport Terminal Building Companies in Japan

SESSION 7B – REVENUE MANAGEMENT AND PRICING - : GALLERY 1

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

309 Michael Z.F. Li  
Nanyang Technological University, Singapore

Joint Dynamic Pricing and Inventory Control for Two Parallel Flights

220 Uzi Freund-Feinstein, Shlomo Bekhor  
Technion Israel Institute of Technology, Israel

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116 Kuancheng Huang, Yi-Ya Peng, I-Wen Wu  
National Chiao Tung University, Taiwan
A Multi-Fare Dynamic Pricing Model For The Low-Cost Carriers
Li Zou, Chunyan Yu  
Embry-Riddle Aeronautical University, USA
Martin Dresner  
University of Maryland, USA

The Application of Inventory Transshipment Modeling to Air Cargo Revenue Management
Ryan Leick  
Utah Valley University, USA

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Chair:

194 Fardad Sarkeshiki  
Abdolreza Rezaee Arjroody  
Tarhe Mandegare Arya Co., Iran
Transportation Research Institute, Iran
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240 Jinn-Tsai Wong  
Shy-Chang Tsai  
National Chiao Tung University, Taiwan
China University of Science and Technology, Taiwan
Survival analysis for flight delay exploration

176 Rolando Antonio Corradini Neto, Carlos Muller  
Instituto Tecnológico de Aeronáutica, Brazil
Speed Schedule Optimization Of A Jet Airplane

80 Ching-Mei Li, Ta-Chung Wang  
National Cheng-Kung University, Taiwan
Weekly Fleet Assignment with Continuously Adjustable Flight Schedule

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Chair: Jaap de Wit, University of Amsterdam, Netherlands

313 Yibin Xiao  
Xiaowen Fu  
Tae H. Oum  
Jia Yan  
University of Electronic Science and Technology of China, China
The Hong Kong Polytechnic University, Hong Kong
University of British Columbia, Canada
Washington State University, USA
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19 Joel Zhengyi Shon  
Tainan University of Technology, Taiwan
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219 Pelin Akin  
Istanbul Ataturk Airport International Terminal, Turkey
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281 Vasco Reis, Rosário Macário  
Universidade Técnica de Lisboa, Portugal
State of the Art of Public Private Partnerships in Airports Construction and Development

SESSION 7F - AIRPORT PLANNING AND MANAGEMENT IV  PETER FARRELL
Chair:

104 Melanie Murphy, Alexandra Leipold  
German Aerospace Center (DLR), Germany  
**Land-Use Planning And Management At Airports – Opportunities And Limits Of An Instrument Within Icao’S Balanced Approach To Aircraft Noise Management**

303 Gustavo Sobreiro dos Santos, Emmanuel Antonio dos Santos, Rogéria de Arantes Gomes Eller  
Technological Institute of Aeronautics, Brazil  
**People’s Participation In Land Use And Occupation In The Vicinity Of Airports**

62 Felipe Santana Lopes, Ronaldo Alves de Medeiros Junior, Emmanuel Antonio dos Santos  
Instituto Tecnológico de Aeronáutica, Brazil  
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144 Marcia Estrada Braga, Elton Fernandes, Aline Lys Liborio da Silva, Ivy Costa Torres Machado  
COPPE/UFRJ, Brazil  
**Analysis Of Air Transportation Demand And Airport Capacities In The 2014 Soccer World Cup In Brazil**

### SESSION 7G - AIRLINE NETWORK DEVELOPMENT I  
**GONSKI**

Chair: Katsuya Hihara, University of Tokyo, Japan

22 Wolfgang Grimme  
German Aerospace Center (DLR), Germany  
**Going the long way – an analysis of the world’s ultra long-haul non-stop air routes**

305 Axel Budde, Guillaume Burghouwt, Jaap de Wit  
University of Amsterdam, Netherlands  
**The Making And Braking Of Waves - Using A Pattern Recognition Algorithm In The Analysis Of Hubbing And De-Hubbing Effects On Indirect Temporal Connectivity**

114 Renato Redondi  
University of Brescia, Italy  
Paolo Malighetti  
University of Bergamo, Italy  
**The accessibility of European regions and airport network**

103 Wei Lu, Xingwu Zheng  
Civil Aviation University of China, China  
Matthias Finger  
EPFL - Ecole Polytechnique Fédérale Lausanne, Italy  
**An Analysis of Imbalanced Traffic Flows in China-EU Air Cargo Market**

### CONCURRENT SESSION 8 (SATURDAY, 2 JULY, 10:30 – 12:00)

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Chair: Shinya Hanaoka, Tokyo Institute of Technology, Japan

159 Seock-Jin Hong, Je-Gu Lee  
Bordeaux Management School, France  
Korea Maritime University, South Korea  
**Efficiency Analysis of Major Airports in Asia - With Emphasis on DEA and Super-efficiency Analysis**

170 Rico Merkert, Romano Pagliari, Svein Bråthen  
Cranfield University, UK  
Molde University College, Norway
The Use Of Econometric Methods For Efficiency Analysis Of Regional Airports - A Meta Analysis

Shahab Hassanpour, Majid Zabihi Tari, Yashar Zeinali Farid
Tarbiat Modares University, Iran
The Importance Level of Effective Factors on Airport Efficiency and Level of Services

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Chair: Cheng-Min Feng, National Chiao Tung University, Taiwan

94 Phimporn Sowawattanakul, Winai Wongsurawat
Asian Institute of Technology, Thailand
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119 Chih-Chiang Chen, Ming-Cheng Wu
CAFA, Taiwan
The emerging but imbalanced Cross-Strait air cargo markets: Implications and Potential Demands for direct Taiwan-China Air Services

139 B. Kodanda
CSIR - National Aerospace Laboratories (NAL), India
Ashish Verma
Indian Institute of Science (IISc), India
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196 Yahua Zhang
University of Southern Queensland, Australia
What Do Chinese Passengers Expect from Domestic Airlines?

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Chair:

204 Hamidreza Bahramian, Khalil Zamani
Transportation Research Institute, Iran
Fardad Sarkeshiki
Tarhe Mandegar Aria Consultant Engineering, Iran
Implementation of Air Traffic Management Operational Concept in Iran

123 Francisco Ravier Ramirez-Fernandez
FATEC Carapicuiba, Brazil
Magali Andreia Rossi, Jorge Rady de Almeida Junior,
University of São Paulo, Brazil
Mario Corrêa
Using The MIPv6 Protocol For Communication With UAV, Aiming To Update Embedded Weather Forecast Models

26 Daniel Pisani Dias, Carlos Müller
Aeronautics Institute of Technology, Brazil
Flight sequencing at a terminal control area based on required time of arrival at a metering fix

254 Dave Knorr, Xing Chen, Marc Rose, John Gulding
Federal Aviation Administration, USA
Philippe Enaud, Holger Hegendoerfer,
EUROCONTROL, Belgium
Tim Rees
Air Services Australia, Australia
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202 Terumitsu Hirata
Institute for Transport Policy Studies, Japan
Tetsuo Yai
Tokyo Institute of Technology, Japan
Daichi Mimura
NTT LOGISCO Inc., Japan
Analysis Of Air Traffic Flow Management By Ground-Holding In Japan
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Chair:

296  Hangjun (Gavin) Yang, Anming Zhang  
University of British Columbia, Canada
Price-cap vs. Rate-of-return Regulation on Capacity and Service Quality

248  Ferhan Kuyucak, Bijan Vasigh  
Embry-Riddle Aeronautical University, USA
Government Failure, Market Failure And Public Interest: An Assessment Of Airport
Governance Policies Through Stakeholder Perspective

74  Darryl Biggar  
Australian Competition and Consumer Commission (ACCC), Australia
Why Regulate Airports? A Re-Examination of the Rationale for Airport Regulation

231  Hans-Martin Niemeier, Peter Forsyth  
University of Applied Sciences, Germany, Monash University, Australia
Incentive Regulation of Airports – An Economic Assessment

SESSION 8F - AIRPORT DEMAND MANAGEMENT & AIRPORT-AIRLINE RELATION

Chair: Wolfgang Grimme, German Aerospace Center, Germany

Aeronautics Institute of Technology, Brazil
Airport Resources Allocation Using A-Cdm For The Brazilian Environment

108  Peter Berster, Marc Gelhausen, Dieter Wilken  
German Aerospace Center (DLR), Germany
Do Airport Capacity Constraints Have A Serious Impact On The Future Development Of
Global Air Traffic?

291  Alessandro Avenali, Tiziana D’Alfonso  
Sapienza Università di Roma, Italy, University of Bergamo, Italy
An Auction-Based Mechanism For Airport Time Slot Allocation

180  Katsuya Hihara  
University of Tokyo, Japan
Airport-Airline Vertical Relationship with Risk Sharing Contract under Asymmetric
Information Structure

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Chair: Paolo Malighetti, University of Bergamo, Italy

269  Chuntao Wu, Ji Han, Yoshitsugu Hayashi  
Nagoya University, Japan
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182  Fabiene Cristina de Carvalho da Costa, Bruno Luis  
Cidade Universitária, Brazil
de Carvalho da Costa

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198 Sung-Yeoul Oh
Yonghwa Park

Korea Transport Institute, South Korea
Inha University, South Korea

Analyzing the Airport Network Centrality of Asia Pacific Region

299 Jaap de Wit

Running A Business Of 90 A380s: What Network Would You Choose?