

## 2014 ATRS World Conference Program Agenda – Final (July 17-20 @ Kedge Business School, Bordeaux, France)

### Thursday 17-Jul

8:30-10:30 ATRS Executive Committee Meeting  
*Room #1110 (by invitation only)*

10:30-12:30 ATRS Networking Committee Meeting  
*Room #1110 (by invitation only)*

14:00-16:00 Airport Benchmarking Taskforce Meeting  
*Room #1110 (by invitation only)*

16:00-17:45 **Ph.D. Student and Junior Faculty Workshop**  
*Room #1110* Co-Chairs: Christian Hofer, University of Arkansas; Robert Windle, University of Maryland  
Panelists: Paul Hooper, University of New South Wales; Chunyan Yu, Embry-Riddle Aeronautical University

18:00-20:00 **Registration and Welcome Reception**  
*KEDGE, ground floor*

### Friday 18-Jul

8:30-9:00 **Welcome Address**  
Room: Chair: Seock-Jin Hong, Kedge Business School and Conference Chair  
*Amphi 1136* Alain Rousset, President of Aquitaine Region  
Martin Dresner, University of Maryland and ATRS President  
Philip McLaughlin, Acting Dean, Kedge Business School

9:00-10:30 **Keynote Session I: Low-Cost Carriers and Their Dedicated Terminals**  
Room: Moderator: Francois Domergue, Vice Chair, Professor, INSEEC  
*Amphi 1136* Speaker 1: Pascal Personne, "The experience of Billi terminal at Bordeaux airport," CEO of Bordeaux Airport  
Speaker 2: Perry Miller, Head, Houston-Hobby Airport  
Speaker 3: Hanna-Kaisa Sarri, Project Manager, Aerospace Valley, France

10:30-11:00 **Coffee Break supported by Conseil régional Aquitaine**

11:00-12:30 **Concurrent Sessions I**

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I-A **Airport Economics**

Room #1363 Chair: Tae H. OUM, University of British Columbia

- 358 Airport Investment with Vertical Arrangements; XIAO, Yibin (University of Electronic Science and Technology of China), ZHANG, Anming (University of British Columbia, Canada), FU, Xiaowen (University of Sydney, Australia)
- 257 Using System Dynamics to Understand Airport-Airline Relationships and Their Impact on Airport Revenue; OLARU, Doina (University of Western Australia Business School, Australia), QIN, Faye (University of Western Australia Business School, Australia)
- 261 Economic Assessment of Investments in European Airports - A Survey; NIEMEIER, Hans-Martin (University of Applied Sciences Bremen, Germany), FORSYTH, Peter (Monash University, Australia), NJOYA, Eric (University of Applied Sciences, Germany)

I-B **Airport Strategy, Management and Operations (1)**

Room #1215 Chair: Martin DRESNER, University of Maryland

- 215 META-CDM: Multimodal, Efficient Transportation in Airports and Collaborative Decision Making; LAPLACE, Isabelle (University of Cambridge, United Kingdom), DRAY, Lynnette (University of Cambridge, United Kingdom), MARZUOLI, Aude (University of Cambridge, United Kingdom), FERON, Eric (University of Cambridge, United Kingdom)
- 217 Cooperation and Competition of Airports - Lessons from Europe; KUPFER, Franziska (University of Antwerp, Belgium), De LANGHE, Katrien (University of Antwerp, Belgium), SYS, Christa (University of Antwerp, Belgium), Van De VOORDE, Eddy (University of Antwerp, Belgium), VANELSLANDER, Thierry (University of Antwerp, Belgium)
- 56 Designing A Framework for Integration of Airport Collaborative Decision Making; LI, Weigang (University of Brasilia, Brazil), De ARRUDA Jr., Antonio Carlos (University of Brasilia, Brazil), ALVES, Claudio (Aeronautical Institute of Technology – ITA, Brazil), TRABELSI, Salma Fitouri (The French Civil Aviation University, France), MORA-CAMINO, Felix (The French Civil Aviation University, France)
- 287 Airport Marketing - A Conceptual Analysis of Branding and Positioning Strategies; GEBAUER, Jessica (EBS University for Business and Law, Germany)
- 351 Moment-Based Tests for Parametric Cost Frontiers; BONTEMPS, Christian (Ecole Nationale de l'Aviation Civile and Toulouse School of Economics, France)

I-C **Airline Economics (1)**

Room #1216 Chair: Sveinn GUDMUNDSSON, Toulouse Business School

- 86 Price Dispersion and Market Structure: The Role of Demand Uncertainty and Vertical Differentiation in the Airline Industry; BEHRENS, Christiaan (Tinbergen Institute, The Netherlands), LIJESEN, Mark (VU University Amsterdam, The Netherlands)
- 35 Route Profitability Study - The Clash between Reality and Self-perception; SZESNY, Maximilian (IUBH School of Business and Management, Germany), WILDE, Stephan (Airpas Aviation AG, Germany), DESEL, Ulrich (IUBH School of Business and Management, Germany)

- 80 Indebtedness and Bankruptcy Costs in the Airline Industry; PIRES, Heloisa Marcia (Federal University of Rio de Janeiro, Brazil), FERNANDES, Elton (Federal University of Rio de Janeiro, Brazil)
- 188 Optimization of Profitability in Existing Route Networks of Hub-and-Spoke Airlines; SOYK, Christian (Technical University of Munich, Germany)
- 249 The Role of Marginal Costs in Joint Passenger/Cargo Flights; MORRELL, Peter (Cranfield University, United Kingdom)

*I-D*            **Airport and Airline Performance**

- Room #1219* Chair: Fabio MENDEZ, Loyola University Maryland
- 146 An Analysis of Airline Quality Rating Components Using Bayesian Methods; MOTT, John H. (Purdue University, USA), AVERY, Branden K. (Purdue University, USA)
  - 196 Using Bayesian Distance Stochastic Frontier and DEA Models to Establish a Combined Perceived Quality and Profitability Indicator for Airports; MERKERT, Rico (University of Sydney Business School, Australia), ASSAF, Albert George (University of Massachusetts, USA)
  - 66 Assessing European Airport Dependency Based on Alternative Indexes; PAPTHEODOROU, Andreas (University of the Aegean, Greece), KOO, Tay-Ryang (University of New South Wales, Australia), HALPERN, Nigel (Molde University College, Norway ), GRAHAM, Anne (University of Westminster, United Kingdom), ARVANITIS, Pavlos (University of the Aegean, Greece)
  - 334 Modeling Delay Propagation: A Joint Analytical-Statistical Approach; KAFLE, Nabin (University of Illinois at Chicago, USA), ZOU, Bo (University of Illinois at Chicago, USA)
  - 256 Investigation of the Flight Product Dynamic Choice Problem; FREUND-FEINSTEIN, Uzi (Technion Israel Institute of Technology, Israel), BEKHOR, Shlomo (Technion Israel Institute of Technology, Israel)

*I-E*            **Air Transport Policy & Regulation (1)**

- Room #1220* Chair: Narjess ABDENNEBI, ICAO
- 288 Classifying National Aviation Systems from A Strategic Management Perspective; PIYATHILAKE, Darshi (Cranfield University, United Kingdom ), MASON, Keith (Cranfield University, United Kingdom ), SUAU-SANCHEZ, Pere (Cranfield University, United Kingdom)
  - 180 Passenger Rights in Air Transportation - An Economic Assessment; FICHERT, Frank (Worms University of Applied Sciences, Germany)
  - 255 First Impact of ASEAN Liberalization on Regional Air Transport Markets: The Case of Cambodia; LAPLACE, Isabelle (Sustainable Growth Research Program, France), LENOIR, Nathalie (Aviation Economics and Econometrics Laboratory, France)
  - 103 International Air Transport Service Policy and the Industrial Development of China; ZHANG, Yi (Civil Aviation University of China, China), ZHENG, Xingwu (Civil Aviation University of China, China)

*I-F*            **Revenue Management & Pricing**

- Room #1358* Chair: Robert WINDLE, University of Maryland
- 14 Ancillary Revenue Pricing; WITTMER, Andreas (University of St. Gallen, Switzerland), OBERLIN, Nicole (Switzerland)

- 363 The Pricing Responses of Non-Bag Fee Carriers to the Use of Bag Fees in the US Air Travel Market; ZOU, Li (Embry-Riddle Aeronautical University, USA), YU, Chunyan (Embry-Riddle Aeronautical University, USA), RHOADES, Dawna (Embry-Riddle Aeronautical University, USA), WAGUESPACK, Blaise (Embry-Riddle Aeronautical University, USA)
- 298 Effects of Route Competition on the Dynamics of Airline Pricing in Emerging Markets; IVANOV, Nikola (University of Belgrade, Serbia), JOVANOVIC, Radosav (University of Belgrade, Serbia)
- 208 An Availability Design to Model Upsell and Recapture Rates; SMITH, Brett (University of Western Australia, Australia), WANG, Jue (University of Western Australia, Australia)
- 20 The Behaviour of Airline Fares: Spain versus France; ANDRES, Maria-Encarnacion (University of Castilla-la Mancha, Spain), ALFARO, Jose-Luis (University of Castilla-la Mancha, Spain), TRINQUECOSTE, Jean-François (Université Bordeaux, France)

*I-G*      **Air Transport Demand (1)**

- Room #1359* Chair: Anthony CHIN, National University of Singapore
- 18 The Asymmetric Effects of Income and Fuel Price on Air Transport Demand; WADUD, Zia (University of Leeds, United Kingdom)
  - 96 Quantitative Estimation of the Demand Impacts of LCC Entry in Japan's Domestic Air Market; ISHIKURA, Tomoki (Tokyo Metropolitan University, Japan)
  - 122 Study on the Relationship between Air Transport Demand and Related Variables Using the Non-Parametric Methodology and Changing Point Analysis; SONG, Ki Han (The Korea Transport Institute, South Korea)
  - 270 Air Transport Passenger and Aircraft Traffic Demand at Ninoy Aquino International Airport; DELICANO, Joefreim A. (Philippine State College of Aeronautics, Philippines), ABAYA, Ernesto B. (University of the Philippines, Philippines), AJOC, Kit Lorenzo M. (Philippine State College of Aeronautics, Philippines), BARRIENTOS, Joseph P. (Philippine State College of Aeronautics, Philippines), OLFINDO, Mark Joel L. (Philippine State College of Aeronautics, Philippines)
  - 286 Last Minute Booking; PALME, Herwig (Vienna University of Economics and Business, Austria), SCHNUDERL, Harald (Vienna University of Economics and Business, Austria)

*I-H*      **Aviation Safety and Security (1)**

- Room #1360* Chair: Nicola VOLTA, Southern Denmark University
- 373 Economic Issues in Aviation Security; MORRISON, William G. (Wilfrid Laurier University, Canada), GILLEN, David W. (University of British Columbia, Canada)
  - 362 Assessment of Policies and Procedures of Air Cargo Security: A Comparison of Brazil And China; WILLIAMS, Michael (Embry-Riddle Aeronautical University, USA), YU, Chunyan (Embry-Riddle Aeronautical University, USA), ZOU, Li (Embry-Riddle Aeronautical University, USA)
  - 251 Aviation Safety: Automating the Pilot or Humanizing the Machines - That Is the Question; VIEIRA, Ana Maria (Instituto Tecnológico de Aeronáutica, Brazil)
  - 186 Causal Factor Analysis of Aircraft Runway Excursions in Taiwan since Aviation Safety Council Was Established in 1998; LU, Alex Y.L. (Kainan University, Taiwan), YANG, Cheng-Hua (National Kaohsiung University of Hospitality and Tourism, Taiwan), WANG, Yo-Min (Kainan University, Taiwan)

*I-K*            **Aviation & Tourism (1)**

*Room #1362*   Chair:    Joel Zhengyi SHON, Tainan University of Technology

- 99    An Analysis of the Relations between Direct Air Services and Tourist Flows: The Case of Air Service Availability and Geographic Diffusion of Visitors in Australia; KOO, Tay R. (University of New South Wales, Australia), DOBRUSZKES, Frédéric (Brussels Free University (ULB), Belgium)
- 345   Business Model Proposal of New, Luxury Flying Boat Cruise; HORIUCHI, Yoshihide (Shibaura Institute of Technology, Japan)
- 370   Analysis of the Relationship between Cruise and Aviation Services; TAKADA, Kazuyuki (Tokyo Denki University, Japan), FUJIIU, Makoto (Kanazawa University, Japan), INABA, Joe (University of Tokyo, Japan)
- 229   Air Travel Tourism and Income Distribution in Developing Economies; TAN, David Tatwei (University of New South Wales, Australia)
- 236   The Impact of the EU Ban on Tourist Arrivals from Europe; MANUELA Jr., Wilfred S. (Ateneo de Manila University, Philippines), De VERA, Manuel J. (Asian Institute of Management, Philippines)

12:30-14:30    **Lunch supported by KAC (Korea Airport Corporation)**

*KEDGE, ground floor*

14:30-16:00    **Concurrent Sessions II**

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*II-A*            **Airport Performance**

*Room #1363*   Chair:    Chunyan YU, Embry-Riddle Aeronautical University

- 28    A Hierarchical Cluster Analysis of the Financial Performance of US Hub Airports in Relation to Lease Agreement Types ; RICHARDSON, Charles (Loughborough University, United Kingdom), BUDD, Lucy (Loughborough University, United Kingdom), PITFIELD, David E. (Loughborough University, United Kingdom)
- 42    The Effect of Economic Regulation on Financial Performance: A Case Study of European Airports; GRAHAM, Anne (University of Westminster, United Kingdom), VOGEL, Hans-Arthur (International University of Applied Sciences (IUBH), Germany)
- 53    Estimating Airport Efficiency of Australia and New Zealand Using Stochastic Frontier Analysis; TSUI, Wai Hong Kan (University of South Australia, Australia), LIN, Bo (Massey University, New Zealand)
- 235   Airport Performance and Efficiency Assessment: A New Approach; BALTAZAR, Maria Emilia (University of Beira Interior, Portugal)
- 375   Public Airport Performance Evaluation: Finding the Effective Tools; SHON, Joel Zhengyi (Tainan University of Technology, Taiwan)

*II-B*            **Airport Strategy, Management and Operations (2)**

*Room #1215*   Chair:    Bijan VASIGH, Embry-Riddle Aeronautical University

- 6    Risk Assessment on Runway Safety Areas: Assessing the Severity of Accidents; BARROSO, Luiza Franco (Aeronautics Institute of Technology, Brazil), CORREIA, Anderson Ribeiro (Aeronautics Institute of Technology, Brazil)

- 11 Multi-criteria Approach to Evaluate Airport Safety Levels; GONCALVES, Tiago Jose Menezes (Aeronautics Institute of Technology, Brazil), CORREIA, Anderson Ribeiro (Aeronautics Institute of Technology, Brazil), LOBIANCO, Jose Francisco Barboza (Aeronautics Institute of Technology, Brazil)
- 281 A Way-finding, Road Safety and Cost-Benefit Analysis of Alternative Airport Road Access Design Solutions; ANUAR, Nur Khairiel (Cranfield University, United Kingdom), PAGLIARI, Romano (Cranfield University, United Kingdom), MOXON, Richard (Cranfield University, United Kingdom)
- 91 Vulnerability Plan of an Airport; GARCIA, Milagros Jimenez (AirPartners Consulting, Spain)
- 44 Improving Passenger Intermodal Experience to Gateway Airports: From User to Customer Centrality; AGERON, Pierre (University Lyon 3, France)

**II-C Low-Cost Carriers (1)**

Room #1216

Chair: Ian DOUGLAS, University of New South Wales

- 106 Analysis of Demand Structures on Intercontinental Routes with a View on Identifying Potentials for New Services, i.e. In the Low Cost Segment ; WILKEN, Dieter (German Aerospace Center (DLR), Germany), GELHAUSEN, Marc (German Aerospace Center (DLR), Germany), BERSTER, Peter (German Aerospace Center (DLR), Germany)
- 359 The Effects of International Joint Ventures on Domestic Airlines; LEI, Zheng (University of Surrey, United Kingdom), YU, Chunyan (Embry-Riddle Aeronautical University, USA), OUM, Tae Hoon (University of British Columbia, Canada), FU, Xiaowen (University of Sydney, Australia), FAN, Xingli (Academy of Civil Aviation Science and Technology, China)
- 182 An Empirical Analysis of Networking Strategy of the Subsidiary Low Cost Carrier; MIZUTANI, Jun (Kobe University, Japan)
- 126 Investigating the Passenger's Choice Behavior of Low Cost Carriers ; TSOU, Chia-Ping (National Taiwan Ocean University, Taiwan), YEN, Jin-Ru (National Taiwan Ocean University, Taiwan), CHANG, I-Feng (National Taiwan Ocean University, Taiwan)

**II-D Aviation Case Studies (1)**

Room #1219

Chair: Hans-Martin NIEMEIER, University of Applied Sciences Bremen

- 284 Aerospace Clusters and Competitiveness: A Bordeaux-Montreal Comparison; GARDES, Nathalie (Bordeaux University, France), DOSTALER, Isabelle (Concordia University, Canada), BARREDY, Celine (Bordeaux University, France), GOURMEL-ROUGER, Corinne (Bordeaux University, France)
- 321 Flexible Estimation of the Choice between Competing Airports: The Case of Québec City Jean-Lesage Airport and Montréal-Trudeau; RANDRIANARISOA, Laingo Manitra (Laval University, Canada ), CRIADO, Carlos Criado (LAVAL University, Canada )
- 92 The Effect on Stockholder's Wealth on Critical Systems Failure and Remedy: The Boeing 787 Case; RAGHAVAN, Sunder (Embry-Riddle Aeronautical University, USA), GOKHALE, Jayendra (Embry-Riddle Aeronautical University, USA), TREMBALY, Victor (Oregon State University, USA)
- 101 U.S. Airways Group: A Post-Merger Analysis; MANUELA, Wilfred S. Jr. (Ateneo de Manila University, Philippines), RHOADES, Dawna L. (Embry-Riddle Aeronautical University, USA), CURTIS, Tamilla (Embry-Riddle Aeronautical University, USA)
- 379 The Price Competitiveness of Air Transport: A Comparative South African Case Study; HAARHOFF, Rene (Central University of Technology, South Africa)

*II-E*            **Environmental Issues in Air Transport (1)**

- Room #1220*   Chair:     Dominique ESTAMPE, Kedge Business School in Bordeaux
- 155   Shaping the Industry with a New Standard: Environmental Labels in the Aviation Industry; BAUMEISTER, Stefan (University of Jyväskylä, Finland), ONKILA, Tiina (University of Jyväskylä, Finland)
  - 132   The Impacts of an Aviation Fuel Tax on Fuel Consumption and Carbon Emissions: The Case of the US Airline Industry; FUKUI, Hideki (Ehime University, Japan), MIYOSHI, Chikage (Cranfield University, United Kingdom)
  - 40   Strategic Reactions of Airlines to Their Inclusion in the European Trading Scheme; MALAVOLTI, Estelle (French Civil Aviation University (ENAC), France)
  - 36   Best Options for Regulating Air Transport's Full Climate Impact from an Economic and Environmental Point of View - Main Results from German Aerospace Centre (DLR) Research Project AviClim; SCHEELHAASE, Janina (DLR, Germany), SAUSEN, Robert (DLR, Germany), DAHLMANN, Katrin (DLR, Germany), JUNG, Martin (DLR, Germany), KEIMEL, Hermann (DLR, Germany), NIEßE, Hendrik (DLR, Germany), SCHAEFER, Martin (German Federal Ministry of Transport and Digital Infrastructures, Germany), WOLTERS, Florian (DLR, Germany)
  - 61   A Study on the Effects of Corporate Social Responsibility Activities upon Brand Loyalty; BAYRAK, Ümran (Anadolu University, Turkey), ATALIK, Özlem (Anadolu University, Turkey), ERATİK, Berk (Anadolu University, Turkey)

*II-F*            **Airline Strategy, Management and Operations (1)**

- Room #1358*   Chair:     Andreas WITTMER, University of St. Gallen
- 318   Key Successful Factors in Management Strategies; DEWULF, Wouter (University of Antwerp, Belgium)
  - 246   Different Kinds of Airlines' Multimarket Contact: The Impact of Codeshare Agreements on Market Entry; KLEIN, Klemens (University of Cologne, Germany), ALBERS, Sascha (University of Southern Denmark, Denmark), SEMRAU, Thorsten (University of Cologne, Germany)
  - 193   A Study of Pooling of Repairable Parts Inventory between Operators; LOPEZ-GRACIA, Natalia (Universitat Politècnica de Catalunya - BarcelonaTech, Spain), SALLAN, Jose M. (Universitat Politècnica de Catalunya - BarcelonaTech, Spain), LORDAN, Oriol (Universitat Politècnica de Catalunya - BarcelonaTech, Spain)
  - 352   An Analysis of Ryanair's Marketing & Communications Strategy for Entering the Greek Market during the Financial Crisis; KALLIGIANNIS, Konstantinos (Hellenic American Education Centre, Greece), XENOFONTOS, Maria (Communications Consultant, Mediazones, Greece), FLOURIS, Triant (Hellenic American University, USA)
  - 7   Real Option Analysis of Aircraft Acquisition: A Case Study; HU, Qiwei (Commercial Aircraft Corporation of China Ltd., China), ZHANG, Anming (University of British Columbia, Canada)

*II-G*            **Air Transport Demand (2)**

- Room #1359*   Chair:     Anming ZHANG, University of British Columbia
- 312   Methods and Techniques for Global Commercial Aircraft Fleet Forecasts; HOOPER, Paul (University of New South Wales, Australia), MUSTAPHA, Chaouki (Air Transport Bureau, International Civil Aviation Organization, Canada)

- 137 FoAM – From Passenger Growth to Aircraft Movements; KÖLKER, Katrin (German Aerospace Center, Germany ), BIEBLICH, Peter (Hamburg University of Technology, Germany), LÜTJENS, Klaus (German Aerospace Center, Germany)
- 348 Forecasts of Scheduled Passenger Traffic for New Airports with Limited Data; SILVA, Erica (Civil Aviation Secretariat, Brazil), CRUZ, Rodrigo (Civil Aviation Secretariat, Brazil), PONTES, Fabio Pifano (Civil Aviation Secretariat, Brazil)
- 264 Comparing Econometric Methods to Forecast Demand for Air Transportation: The Brazilian Case; SILVA, Erica (Civil Aviation Secretariat, Federative Republic of Brazil, Brazil)

*II-H*            **Aviation Safety and Security (2)**

*Room #1360*   Chair:     Frank FICHERT, Worms University of Applied Sciences

- 289 New Concept of Pilot Training- Multi Crew Pilot License (MPL): Is It the Future of Safety and the Solution for Pilot Shortages?; SORAN, Semih (Ozyegin University, Turkey), YILDIRIR, Gurhan (Ozyegin University, Turkey)
- 305 Psychophysiological Factors Analysis in Unpressurized Aircraft Cabins; COELHO, Ana (University of Beira Interior, Portugal), ZORRO, Sara (University of Beira Interior, Portugal), PATRAO, Luis (University of Beira Interior, Portugal), SILVA, Jorge (University of Beira Interior, Portugal)
- 354 Fatigue Factor Analysis for Aircraft Line Maintenance Crews; YEH, Wen-Chen (Kainan University, Taiwan), SHIH, Ching-Kai (Kainan University, Taiwan)
- 17 Paternalistic Leadership and Cabin Crew's Upward Safety Communication; CHEN, Shu-Chuan (Aletheia University, Taiwan)

*II-K*            **Intermodal and Air Travel Alternatives (1)**

*Room #1362*   Chair:     Michael WILLIAMS, Embry-Riddle Aeronautical University

- 38 Airline and Railway (Dis) Integration; GIVONI, Moshe (Tel-Aviv University, Israel )
- 178 Emission Trading Schemes: The Impact on Substitution between Air Transport and High Speed Rail; D'ALFONSO, Tiziana (Università di Roma, Italy), D'ALFONSO, Tiziana (Università di Roma, Italy), NASTASI, Alberto (Università di Roma, Italy)
- 118 Air and High-Speed Rail in China: Competition or Complementary?; WANG, Jiaoe (Chinese Academy of Sciences, China), HU, Hao (Beijing Normal University, China), DU, Chao (University of Chinese Academy of Sciences, China)
- 156 A Study on Latent Factors of Transport Mode Choice Using SP Survey - Focus on Seoul and Jeju Line; YOO, Kwang-Eui (Korea Aerospace University, South Korea), LEE, Joon-Kyu (Korea Aerospace University, South Korea), SONG, Ki-Han (The Korea Transport Institute, South Korea)
- 157 A Study on Travelers' Transport Mode Choice Behaviour Using Mixed Logit Model - Empirical Study on the Seoul - Jeju Route in South Korea; YOO, Kwang-Eui (Korea Aerospace University, South Korea), LEE, Joon-Kyu (Korea Aerospace University, South Korea), SEO, Young-Joon (Korea Aerospace University, South Korea)

*II-O*            **ITF/OECD Panel Session: Aviation Liberalization (1)**

*Room #1364*   Chair:     Stephen Perkins, ITF/OECD

Impacts of air transport liberalization in Europe (1); DE WIT, Jaap (University of Amsterdam), BURGHOUWT, Guillaume (SEO Economic Research), MENDES DE LEON, Pablo (University of Leiden)



Level playing field in international civil aviation; TRETHERWAY, Mike (InterVISTAS)  
Liberalization and air transport connectivity index; ABDENNEBI, Narjess (ICAO, Canada)

16:00-16:30 **Coffee Break supported by Conseil régional Aquitaine**

Ground  
Floor

16:30-18:00 **Keynote Session II: ATRS Global Airport Performance Benchmarking Report**

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Room: Chair: Mario Diaz, CEO of Houston Airports System  
Amphi 1136 Tae Hoon Oum, University of British Columbia, Canada “Key Results of the 2014 ATRS Global Airport Performance Benchmarking Project”  
Panelists: Mr. Balram Bheodari, Deputy GM, Hartsfield-Jackson Atlanta International Airport  
Mr. Kristian Durhuus, VP Operations, Copenhagen Airport  
Dr. Yannis Paraschis, President & CEO, Athens International Airport  
Mr. Bjorn Oli Hauksson, Managing Director, Keflavik International Airport, Iceland  
Mr. Kim Suk-Kee, President & CEO, Korea Airport Corp (or his designate)  
Ms. Marion Charlton, GM-Terminal and Commercial, Gold Coast Airport, Queensland Airports Limited  
Mr. Arturs Kokars, Director of Aviation Services Dept., Riga International Airport  
Mr. Johan Vanneste, CEO, Luxembourg Findel Airport

19:00-23:00 **Gala Dinner & Airport Excellence Awards presentations**

Château Haut Selve ([http://www.vignobles-lesgourgues.com/page.php?page=haut\\_selve\\_presentation](http://www.vignobles-lesgourgues.com/page.php?page=haut_selve_presentation))

**Saturday 19-Jul**

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9:00-10:30 **Concurrent Sessions III**

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III-A **Airport Strategy, Management and Operations (3)**  
Room #1215 Chair: Kostas IATROU, Hellenic Aviation Society

111 The Impact of Low Cost Carrier Presence on Airport Choice: More than Fares and Flight Frequencies?; CHO, Woohyun (University of New Orleans, USA), WINDLE, Robert (University of Maryland, USA), DRESNER, Martin (University of Maryland, USA)

105 Shifting Competitive Positions among Primary Airports in the Asia; MATSUMOTO, Hidenobu (Kobe University, Japan)

267 Current Trends in European Low Cost Airports; JIMENEZ, Edgar (University of Porto, Portugal), CLARO, Joao (University of Porto, Portugal), De SOUSA, Jorge Pinho (University of Porto, Portugal), De NEUFVILLE, Richard (Massachusetts Institute of Technology, USA)

202 A Study of Operational Efficiency and Technology Gap Using a Metafrontier Function Approach for Airports in European and the Asia-Pacific Region; LAI, Po-Lin (Chung-Ang University, South Korea), CHEN, Ying-Hsiu (Yuanpei University, Taiwan)

- 113 Recent Developments and Potential Trends in Surface Access at London's Major Airports; MOXON, Richard (Cranfield University, United Kingdom)

**III-B Airport Strategy, Management and Operations (4)**

*Room #1216* Chair: William MORRISON, Wilfrid Laurier University

- 199 Airport Surface Access with Internet Mobile Services; MARTIN-DOMINGO, Luis (Ozyegin University, Turkey), MARTIN, Juan Carlos (University of Las Palmas de Gran Canaria, Spain)
- 161 Benchmarking Air - Rail Connections at European Airports: Passenger Flow, Wayfinding, and Architectural Design; LANGFERMANN, Paul (Bauhaus Luftfahrt, Germany), SUAU-SANCHEZ, Pere (Cranfield University, United Kingdom)
- 70 Optimizing Car Park Revenues: The Case of a European Low Cost Airport; FRIESEN, Mark (QUINTA Consulting, Germany)
- 207 The Trade-offs between Conflicting Goals of the Scoring System for Airport Slot Allocation in Japan; FUKUI, Hideki (Ehime University, Japan), AKAI, Nobuo (Osaka University, Japan), NAGATA, Koki (University of Maryland, USA)
- 136 Cargo Market Competition among Asia Pacific Major Airports; CHUNG, Yi-Shih (Kainan University, Taiwan), WONG, Jinn-Tsai (National Chiao Tung University, Taiwan), HSU, Pi-Yuan (National Chiao Tung University, Taiwan)

**III-C Airline Economics (2)**

*Room #1219* Chair: Paul HOOPER, University of New South Wales

- 367 The Relationship between Cash-To-Cash Cycle and Financial Performance in Airline Industry; HONG, Seock-Jin (Kedge Business School, France), DOMERGUE, Francois (Inseec Business School, France)
- 163 Connecting African Urban Areas: Airline Networks and Intra-Sub-Saharan African Trade; BUTTON, Kenneth (George Mason University, USA), MARTINI, Gianmaria (University of Bergamo, Italy), BRUGNOLI, Alberto (University of Bergamo, Italy), SCOTTI, Davide (University of Bergamo, Italy)
- 159 Performance Evaluation of the Airline Company with Intellectual Capital; CHIANG, Chao-Hung (China University of Science and Technology, Taiwan)
- 340 Comparative Analysis of Operational Efficiency for Major Asia-Pacific Regional Airlines; KIM, Tae Seung (Inha University, South Korea), PARK, Kichan (Inha University, South Korea)
- 83 Competition, Property Ownership and the Performance of Airlines: The Case of Chinese Airlines; ZHENG, Xingwu (Civil Aviation University of China, China), LI, Yanwei (Civil Aviation University of China, China)

**III-D Aviation Case Studies (2)**

*Room #1220* Chair: Dieter WILKEN, DLR

- 377 Managed Air Travel and the Productivity of Executives on Long-Haul Business Trips within the Asia Pacific Region; CHIN, Anthony TH (National University of Singapore, Singapore), JALIL, Nurul Huda (Civil Service College, Singapore)
- 228 Impact Assessment of Joint Ventures in the Airline Industry: The Case of Joint Ventures across the Transatlantic Markets; MALIK, Bassam Tariq (University of Westminster, United Kingdom)

- 293 A Study on the Long-Distance Fleet of an Airline; ANTUNES, Antonio Pais (University of Coimbra, Portugal), CARREIRA, Joana Silva (University of Coimbra, Portugal), LULLI, Guglielmo (University of Milan - Bicocca, Italy ), ODONI, Amedeo (Massachusetts Institute of Technology, USA)
- 67 A Study on the Importance of the Intellectual Capital in Airline Companies In Turkey; KURT, Yeşim (Anadolu University, Turkey)
- 130 The Financial Impact of the U.S. FAA Downgrade on Philippine Airlines; MANUELA Jr., Wilfred S. (Ateneo de Manila University, Philippines), DE VERA, Manuel J. (Asian Institute of Management, Philippines)

**III-E Environmental Issues in Air Transport (2)**

Room #1358

Chair: Chikage MIYOSHI, Cranfield University

- 169 The Concept of “Water-Neutral” Airport; VOSKAKI, Asimina (Environmental Assessment in Transports, MSc in Environmental Assessment, Greece)
- 176 Eco-Positioning of Airlines: Perception versus Actual Performance; MAYER, Robert (University of Huddersfield, United Kingdom), RYLEY, Tim (Loughborough University, United Kingdom), GILLINGWATER, David (Loughborough University, United Kingdom)
- 218 Aviation Climate Resilience: Clarifying the Impacts and Identifying the Barriers; BURBIDGE, Rachel (Eurocontrol, Belgium)
- 299 A CO2 Emissions Estimation Methodology for Air Transportation: The Case of São Paulo - Rio De Janeiro Route; De ARAUJO ALMEIDA, Rafael (Instituto de Controle do Espaço Aéreo, Brazil), De ARANTES GOMES ELLER, Rogeria (Instituto Tecnológico de Aeronáutica, Brazil)
- 227 Uncontrolled Growth or Uniform Regulation - the Case of Noise Surcharges at German Airports; MAERTENS, Sven (German Aerospace Center (DLR), Germany), EHMER, Hansjochen (German Aerospace Center (DLR), Germany)

**III-F Low-Cost Carriers (2)**

Room #1359

Chair: Jaap De WIT, University of Amsterdam

- 211 LCC Route Churn as an Indicator for Market Saturation in Europe; ZUIDBERG, Joost (SEO Economic Research, The Netherlands), De WIT, Jaap (University of Amsterdam, The Netherlands)
- 128 Business Models of Low Cost Carriers in Asia; LI, Sui-Ling (National Penghu University of Science and Technology, Taiwan), WONG, Jinn-Tsai (National Chiao Tung University, Taiwan), TIAN, Yu Xian (National Chiao Tung University, Taiwan)
- 223 Organizational Ambidexterity in the Airline Industry: Evidence from Low Cost and Legacy Carriers; SIACHOU, Evangelia (Hellenic American University, USA), FLOURIS, Triant (Hellenic American University, USA), YILMAZ, Ayse Kucuk (Anadolu University, Turkey)
- 25 The Strategic Capability of Asian Network Airlines to Compete with Low-Cost Carriers ; PEARSON, James (Loughborough University, United Kingdom), PITFIELD, David (Loughborough University, United Kingdom), RYLEY, Tim (Loughborough University, United Kingdom)
- 259 A Tale of Two Markets - The Convergence of Airline Business Models in Europe and Australia; DAFT, Jost (University of Cologne, Germany), ALBERS, Sascha (University of Southern Denmark, Denmark), DOUGLAS, Ian (University of New South Wales, Australia)

**III-G Air Transport Demand (3)**

- Room #1360* Chair: Rico MERKERT, University of Sydney
- 75 Long-Term Traffic Forecasts and Operating Pattern Long-Term Traffic Forecasts and Operating Pattern for a Regional Airport; DENNIS, Nigel (University of Westminster, United Kingdom)
  - 285 Spatial Dependence in (Origin-Destination) Air Passenger Flows; MARGARETIC, Paula (Airbus SAS, France), DOUCET, Romain (Airbus SAS, France), THOMAS-AGNAN, Christine (Toulouse School of Economics, France), VILLOTTA, Quentin (Airbus SAS, France)
  - 330 Forecasting Air Passenger Traffic Flows in Canada: Revisiting the Passenger Origin-Destination Model; CISSE, Ismaelh (Laval University, Canada ), CRIADO, Carlos Ordas (LAVAL University, Canada)
  - 349 Past, Present and Future Trends for Air Travel Demand in Brazil; SILVA, Erica (Civil Aviation Secretariat, Brazil), CRUZ, Rodrigo (Civil Aviation Secretariat, Brazil), PONTES, Fabio Pifano (Civil Aviation Secretariat, Brazil)
  - 307 Demand for Low Cost Carriers - An Empirical Study in Taiwan; HSIAO, Chieh-Yu (National Chiao-Tung University, Taiwan)

*III-H* **Aviation Safety and Security (3)**

- Room #1362* Chair: Massoud BAZARGAN, Embry-Riddle Aeronautical University
- 342 Estimation of Air Transportation Accident Costs in Korea; PARK, Jinseo (The Korea Transport Institute, South Korea), SHIM, Garam (The Korea Transport Institute, South Korea), SHIM, Jaeick (The Korea Transport Institute, South Korea), YU, Jeongbok (The Korea Transport Institute, South Korea)
  - 269 Airport Benchmarking Issues - The Key Performance Area of Safety and Security; MARCHAO, Paulo (University of Beira Interior, Portugal), BALTAZAR, Maria E. (University of Beira Interior, Portugal), ALVES, Pedro (University of Beira Interior, Portugal), SILVA, Jorge (University of Beira Interior, Portugal)
  - 179 The Relationship between Promoting Organizational Safety Culture to Flight Attendants and the Impact of Flight Safety; CHANG, Chiu-Hua (China University of Science and Technology, Taiwan), MEI, Sabrina MC (China University of Science and Technology, Taiwan)
  - 343 Evaluating Air Crashes in Nigeria between 1960-2012; OLUFEMI, Oluwakoya A. (Redeemer's University, Nigeria)
  - 119 Evaluating Workload for Intensity as a Controller Function for NextGen Scenarios with Increased Capacity; SURAKITBANHARN, Caitlin Anne (Purdue University, USA), LANDRY, Steven (Purdue University, USA)

*III-K* **Air Cargo Forecasting, Management, Logistics and Operations (1)**

- Room #1363* Chair: Li ZOU, Embry Riddle Aeronautical University
- 37 Assessing the Relationship between Air Freight and Merchandise Trade: A Focus on the Recent Economic Crisis; ONGHENA, Evy (University of Antwerp, Belgium), KUPFER, Franziska (University of Antwerp, Belgium), MEERSMAN, Hilde (University of Antwerp, Belgium), VAN DE VOORDE, Eddy (University of Antwerp, Belgium)
  - 110 Air Cargo Revenue Management with Flexible Shipment Types Using Static Booking Limits; BOONEKAMP, Thijs (SEO Economic Research, The Netherlands), LIESHOUT, Rogier (SEO Economic Research, The Netherlands)
  - 133 The Development of Freight Transport Booking Applications for Air Cargo; CASTELLI, Lorenzo (Università degli Studi di Trieste, Italy), BOLIC, Tatjana (Università degli Studi di Trieste, Italy), LUXA, Alice (Università degli Studi di Trieste, Italy)

- 183 An Evaluation of Supply Adequacy for Air Cargo Route Based on the Demand Characteristics of Nodes; YOON, Shin (Inha University, South Korea), PARK, Yonghwa (Inha University, South Korea)
- 54 Fuzzy Model Applied to Airport Impact Assessment of Air Cargo Demand; RAYMUNDO, Luis (Federal University of Rio de Janeiro (UFRJ), Brazil), KRYKHTINE, Fabio (Federal University of Rio de Janeiro (UFRJ), Brazil), COSENZA, Carlos (Federal University of Rio de Janeiro (UFRJ), Brazil)

*III-O* **ITF/OECD Panel Session: Aviation Liberalization (2)**

- Room #1364* Chair: Martin Dresner, University of Maryland
- Dominant Carrier Performance and International Liberalization – the case of North East Asia; FU, Xiaowen (University of Sydney, Australia), OUM, Tae (University of British Columbia, Canada)
- E.U and ASEAN Contemplate a Comprehensive Air Transport Agreement: What Will It Contain and Can It Work?; TAN, Alan (National University of Singapore)
- Impacts of air transport liberalization in Europe (2); BURGHOUWT, Guillaume (SEO Economic Research), MENDES DE LEON, Pablo (University of Leiden), DE WIT, Jaap (University of Amsterdam)

10:30-11:00 **Coffee Break supported by Conseil régional Aquitaine**

Ground  
Floor

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

*IV-A* **Airport Strategy, Management and Operations (5)**

- Room #1215* Chair: Christiaan BEHRENS, Tinbergen Institute
- 64 Factors Affecting Airport Route Development Activity and Performance; HALPERN, Nigel (Molde University College, Norway), GRAHAM, Anne (University of Westminster, United Kingdom)
- 121 Study on National Airport Stock Index Based on the Airline Network Structure; SONG, Ki Han (The Korea Transport Institute, South Korea), LEE, Seung Ho (The Korea Transport Institute, South Korea)
- 280 Determination and Evaluation of the Airport Catchment Area; ALVES, Pedro (University of Beira Interior, Portugal), BALTAZAR, Maria E. (University of Beira Interior, Portugal), MARCHAO, Paulo (University of Beira Interior, Portugal), SILVA, Jorge (University of Beira Interior, Portugal), ALMEIDA, Pedro (University of Beira Interior, Portugal)
- 282 Identification of Capacity Constrained Airports; SCHINWALD, Christoph (Technical University of Munich, Germany), HORNUNG, Mirko (Technical University of Munich, Germany)
- 164 Measuring the Impact of Temporal Schedule Synchronization on Airline Hub Connectivity Using Random Timetable Simulations; SEREDYNSKI, Adam (airconomy aviation intelligence GmbH, Amadeus IT Group, Germany), GROSCHE, Tobias (Worms University of Applied Sciences, Germany), ROTHLAUF, Franz (Johannes-Gutenberg University, Germany)

*IV-B* **Airport Strategy, Management and Operations (6)**

- Room #1216* Chair: Wouter DEWULF, University of Antwerp

- 166 Latent Class Models of Airport Shopping Behaviour; TSENG, Wen-Chun (University of New South Wales, Australia), WU, Cheng-Lung (University of New South Wales, Australia)
- 171 Ageing Society and the Level of Service at Airports: A Cross - Cultural Perspective; KIM, Tae Hyun (University of New South Wales, Australia), WU, Cheng-Lung (University of New South Wales, Australia), KOO, Tae-Ryang (University of New South Wales, Australia)
- 144 Designing an Ambidextrous Business Model: "Facts and Acts"; BUYUKBALCI, Pinar (Yildiz Technical University, Turkey), BATUM, Ufuk (ODTU TEKNOKENT, Turkey)
- 401 The Competitive Analysis of Airport Hubbing as an International Logistics Center-Focus on Major Airports in Asia; HONG, Seock-Jin (KEDGE Business School in Bordeaux, France), HAN, Ji-Young (Incheon National University); ZHANG, Chi (KEDGE Business School in Bordeaux, France)

IV-C **Environmental Issues in Air Transport (3)**

*Room #1219* Chair: Mark FRIESEN, QUINTA Consulting/University of St. Gallen

- 127 Evaluation of Alternative Cryogenic Green Propulsion Systems in Terms of Aviation Infrastructure; UCLER, Caglar (Ozyegin University, Turkey)
- 381 Benchmarking Environmental Efficiency of Major European Airports in the Presence of Aircraft Noise: A Directional Distance Function Approach; MARTIN, Juan Carlos (University of Las Palmas de Gran Canaria, Spain), VOLTES-DORTA, Augusto (University of Edinburgh Business School, United Kingdom)
- 162 The Factors Affecting Pollution and Noise Social Costs of the Current Aircraft Fleet: An Econometric Analysis ; GRAMPELLA, Mattia (University of Milan Bicocca, Italy), MARTINI, Gianmaria (University of Bergamo, Italy), SCOTTI, Davide (University of Bergamo, Italy), ZAMBON, Giovanni (University of Milan Bicocca, Italy)
- 233 Exploring Corporate Social Responsibility as a Component of Strategy Statements in Airlines; SENGUR, Ferhan Kuyucak (Anadolu University, Turkey), SENGUR, Yusuf (Oxford House College, Turkey)
- 244 Airline Green Brand Image and Brand Relationship Quality; CHEN, Fang-Yuan (Feng Chia University, Taiwan), TU, Shih-Liang (World Bank and Asian Development Bank), CHEN, Ying-Shuang (Feng Chia University, Taiwan)

IV-D **Aviation Case Studies (3)**

*Room #1220* Chair: Annela ANGER, University of East Anglia

- 109 Evolutionary Traffic Patterns of Greek Regional Airports: An Overview of the Last 35 Years; ARVANITIS, Pavlos (University of the Aegean, Greece), PAPTAEODOROU, Andreas (University of the Aegean, Greece)
- 85 L.C. & TURISMO: Analysis of Users of International Low Cost Flights from Cagliari-Elmas Airport; RASSU, Nicoletta (University of Cagliari, Italy), DEVOTO, Roberto (University of Cagliari, Italy)
- 145 The Evolution of Turkish Airlines Business Model: From Traditional to Aviation Business; ADILOGLU, Leyla (Ozyegin University, Turkey), KUCUKONAL, Hatice (Ozyegin University, Turkey), YALCINKAYA, Akansel (Anadolu University, Turkey)
- 148 Perception of Corporate Social Responsibility in Turkey Airport System and a Practice in TAV Airports Holding Cooperation; YILMAZ, Harun (Mustafa Kemal University, Turkey), TANER, Bahar (Mersin University, Turkey)

- 210 E-Commerce in Aviation and a Case Study of Comparing Airline Websites Based on Different Strategic Objectives ; BEKCE, Hatice Kubra (Turkish Airlines General Management Building, Ataturk Airport, Turkey), AKCA, Zeliha (Turkish Airlines General Management Building, Ataturk Airport, Turkey)

IV-E **Air Transport Policy & Regulation (2)**

- Room #1358 Chair: Antigoni LYKOTRAFITI, ITF/OECD
- 26 The Impact of Antitrust Immunity for Airline Alliances on Air Transport Liberalization in Northeast Asia; LEE, Jae Woon (National University of Singapore, Singapore)
- 125 An Analysis of Trade Structural Change's Influences upon the Imbalance Status of Sino-US Air Cargo Market; LU, Wei (Civil Aviation University of China, China), ZHENG, Xingwu (Civil Aviation University of China, China), ZHANG, Yanqing (Civil Aviation University of China, China)
- 209 High-Speed Rail and Low Cost Carrier Competition in Japan: the Effects of Air Transport Liberalization on Inter-Modal Transport Systems; SURAKITBANHARN, Chittayong (Purdue University, USA), LANDRY, Steven J. (Purdue University, USA)
- 212 Economic Effects of Air Transport Liberalization in Africa; ABATE, Megersa (Swedish National Road and Transport Research Institute (VTI), Sweden)
- 185 Tourism and Liberalization of Air Transport in Brazil; PACHECO, Ricardo Rodrigues (Empresa Brasileira de Infraestrutura Aeroportuária – Infraero, Brazil), FERNANDES, Elton (Universidade Federal do Rio de Janeiro, Brazil)

IV-F **Mergers and Alliances in Air Transport**

- Room #1359 Chair: Fabio MENDEZ, Loyola University Maryland
- 69 Examining the Postgraduate Dissertations Being Performed in the Department of Civil Aviation Management in Turkey ; KIRACI, Kasim (Anadolu University, Turkey)
- 15 Cost and Revenue Synergies in Airline Mergers – Examining Geographical Differences; WITTMER, Andreas (University of St. Gallen, Switzerland), SCHOSSER, Maximilian (University of St.Gallen, Switzerland)
- 252 Classifying Synergies in Global Airline Alliances; ORHAN, Gamze (Anadolu University, Turkey), TASCI, Deniz (Anadolu University, Turkey)
- 353 The Impact on the Airline Products Offered by Aegean Airlines and Olympic Air Following Their Planned Merger; KALLIGIANNIS, Konstantinos (Hellenic American Education Centre, Greece), XENOFONTOS, Maria (Communications Consultant, Mediazones, Greece), FLOURIS, Triant (Hellenic American University, USA)

IV-G **Marketing in Air Transport (1)**

- Room #1360 Chair: Blaise WAGUESPACK, Embry-Riddle Aeronautical University
- 102 Customer Participation, Value Co-Creation and Customer Loyalty: A Case of Airline Online Check-in System; CHEN, Ching-Fu (National Cheng Kung University, Taiwan), WANG, Jing-Ping (National Cheng Kung University, Taiwan)
- 104 A Study on Passengers' Airport Choice Behavior Using Hybrid Choice Model; YOO, Kwang-Eui (Korea Aerospace University, South Korea), JUNG, Se-Yeon (Korea Aerospace University, South Korea)

- 224 A Study on the Measuring of Consumers' Perception towards the Mobile Marketing Campaigns in Air Transportation; SAK, Fatma Selin (Anadolu University, Turkey), ATALIK, Özlem (Anadolu University, Turkey), SEZGEN, Eren (Anadolu University, Turkey)
- 297 Consumer Opinion Compared and Contrasted to Operating Statistics: An Investigation into Different Systems of Airline Service Quality ; WAGUESPACK, Blaise P. (Embry Riddle Aeronautical University, USA)

IV-H **Aviation Safety and Security (4)**

Room #1362 Chair: Yeon Myung KIM, ITF/OECD

- 365 Superjumbo Aircraft Safety: Cost - Benefit Assessment; CAVKA, Ivana (University of Belgrade, Serbia), PETROVIC VUJACIC, Jelica (University of Belgrade, Serbia), COKORILO, Olja (University of Belgrade, Serbia)
- 213 Advanced Technologies for Bombproof Cargo Containers and Blast Containment Units for the Retrofitting of Passenger Airplanes; ZANGANI, Donato (D'Appolonia S.p.A., Italy), BOZZOLO, Alessandro (D'Appolonia S.p.A., Italy), AMBROSETTI, Samuele (D'Appolonia S.p.A., Italy)
- 27 A Preliminary Investigation into the Understanding of Aircraft Accident Overrun X Locations with and without Normalised Distances; GLEAVE, D.P. (Loughborough University, United Kingdom), PITFIELD, David E. (Loughborough University, United Kingdom), BUDD, Lucy (Transport Studies Group Loughborough University)
- 189 How Aviation Safety Is Improved in Taiwan since Aviation Safety Council Was Established in 1998; LU, Alex Y.L. (Kainan University, Taiwan), YANG, Cheng-Hua (National Kaohsiung University of Hospitality and Tourism, Taiwan)
- 120 A Study on the Cost Estimation of Reputation Loss due to Aviation Accident; SONG, Ki Han (The Korea Transport Institute, South Korea), LEE, Dae-Kyum (The Korea Transport Institute, South Korea)

IV-K **Air Traffic Control (1)**

Room #1363 Chair: Nicole ADLER, Hebrew University

- 141 Investigating Air Traffic Controllers' Fatigue Factors ; YEN, Jin-Ru (National Taiwan Ocean University, Taiwan), TSAI, Kun-Che (National Taiwan Ocean University, Taiwan), LIN, Yi-Sheng (National Taiwan Ocean University, Taiwan)
- 63 A Control Model for Capability Assessment of Multi-Runway Airport with Multi-Sector Airspace; YU, Haiyang (China Academy of Civil Aviation Science & Technology, China)
- 323 Simulation Analysis of Conflict between International Departure Flights from Japan and Overflights; HIRATA, Terimitsu (Ibaraki University, Japan), KINOSHITA, Hayato (Ibaraki University, Japan)
- 283 Benefits of TAMDAR for Addressing Weather and Connectivity Challenges in the Global Airspace; JACOBS, Neil A. (Panasonic Avionics Corporation, USA), FLYNN, Christopher (Panasonic Avionics Corporation, USA), REX, Jeffrey E. (Panasonic Avionics Corporation, USA)
- 205 Operational Performance Measures for National Air Traffic Control Systems; MacLEAN, Leonard (Dalhousie University, Canada), RICHMAN, Alex (AlgoPlus Consulting Ltd., Canada), MACLEAN, Stuart (York University, Canada)

12:30-14:30 **Lunch** **Lunch supported by IIAC (Incheon International Airport Corp.)**  
 KEDGE, ground floor



14:30-16:00 **Concurrent Sessions V**

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V-A **Airport Case Studies (1)**

- Room #1215 Chair: Mikio TAKEBAYASHI, Kobe University
- 304 Determinants of Airport Charges: Panel Data Evidence from Mexican Airports; VALDES, Victor (Anahuac University, Mexico ), NIETO, Maria Rosa (Anahuac University, Mexico )
  - 310 An Assessment of Passengers' Satisfaction in Brazilian Airports; BEZERRA, George Christian L. (University of Coimbra, Portugal), GOMES, Carlos F. (University of Coimbra, Portugal)
  - 350 Analyzing Arrival Diagrams at Brazilian Airport Passenger Terminals; SCHILLER, Luiz Adolfo (Aeronautics Institute of Technology, Brazil), CORREIA, Anderson Ribeiro (Aeronautics Institute of Technology, Brazil)
  - 88 Airport Average-Cost Pricing: Application to Airports in Taiwan; CHANG, I-Feng (National Taiwan Ocean University, Taiwan), YEN, Jin-Ru (National Taiwan Ocean University, Taiwan), TSOU, Chia-Ping (National Taiwan Ocean University, Taiwan)

V-B **Airport Strategy, Management and Operations (7)**

- Room #1216 Chair: Xingwu ZHENG, Civil Aviation University of China
- 248 Privatization of Japanese National Airports' Operation; HASEBE, Masamichi (Kobe University, Japan)
  - 150 How Scale and Institutional Setting Explain the Costs of Small Airports?- An Application of Spatial Regression Analysis; ULKU, Tolga (Humboldt University, Germany), JELESKOVIC, Vahidin (University of Kassel, Germany), MULLER, Juren (Berlin School of Economics and Law, Germany)
  - 187 Assessing Airport Competition through Catchment Area Analysis in Taiwan; CHANG, Chiu-Hua (China University of Science and Technology, Taiwan), YIIN, Elena TJ (China University of Science and Technology, Taiwan)
  - 325 Profit and Losses at French Airports - Evidence from the Hubs and the Regions; BUBALO, Branko (University of Hamburg, Germany)
  - 225 Effects of Institutional Pressure on Corporate Social Responsibility: the Perspective of Institutional Theory in Airport Management; YILMAZ, Ayse Kucuk (Anadolu University, Turkey), FLOURIS, Triant (Hellenic American University, USA), SIACHOU, Evangelia (Hellenic American University, USA), ERDOGAN, Dilek (Anadolu University, Turkey)

V-C **Low-Cost Carriers (4)**

- Room #1219 Chair: Francois DOMERGUE, INSEEC
- 368 Conduct in the U.S. Airline Industry: An Analysis of Hub-To-Hub Markets; BHATTACHARJEE, Prasun (East Tennessee State University, USA)
  - 93 The Coming Revolution in Transatlantic LCC Flying; SHIELDHOUSE, Richard (Intervistas Consulting Group, USA)
  - 153 Applying Importance - Performance Analysis to Diagnose Service Quality of Low Cost Carriers - From Taiwanese Air Passengers' Perspectives; TANG, Mei-Ling (Chienkuo Technology University, Taiwan)
  - 243 The Study of Fleet Selection Model for Low Cost Carrier in Taiwan; CHANG, Chiu-Hua (China University of Science and Technology, Taiwan), CHO, Ricky SH (China University of Science and Technology, Taiwan)

- V-D **Aviation Case Studies (4)**
- Room #1220* Chair: David PITFIELD, Loughborough University
- 331 Business Model for SATA International as a Focal Point for Regional Development; COELHO, Vitor (Tecangol, Angola), MARQUES, Joaquim (Universidade Lusófona de Humanidades e Tecnologias, Portugal), PIEDADE, Lucia F. (Servidor de Apontadores Portugueses (SAPO), Portugal)
  - 263 Airships and Aerostats Technology: A State of Art Review; MARQUES, Antonio (University of Beira Interior, Portugal)
  - 275 Airships and Aerostats Operation: Realities and Challenges of the Applicable Legislation; MARQUES, Antonio (University of Beira Interior, Portugal), REIS, Pedro (University of Beira Interior, Portugal), AMARAL, Tânia (University of Beira Interior, Portugal), CLARO, Sara (University of Beira Interior, Portugal), SANTOS, Tiago (University of Beira Interior, Portugal), NEVES, João (University of Beira Interior, Portugal), SILVA, Jorge (University of Beira Interior, Portugal)
  - 231 The New Viracopos International Airport (SBKP Case Study); MULLER, Carlos (Technological Institute of Aeronautics, Brazil), De MELLO, Luciana Lins (Technological Institute of Aeronautics, Brazil)
  - 16 Analysis of Offshore Helicopter Air Traffic Operations at the Campos Basin; HERMETO, Thyago Silva (Aeronautics Institute of Technology, Brazil), MULLER, Carlos (Aeronautics Institute of Technology, Brazil)
- V-E **Air Transport Policy & Regulation (3)**
- Room #1358* Chair: Li ZOU, Embry Riddle Aeronautical University
- 206 The Effect of Gulf Carrier Entry on Legacy Carriers' Fares and Passenger Demand: Empirical Evidence from the U.S.; MENDEZ, Fabio (Loyola University Maryland, USA), TAN, Kerry (Loyola University Maryland, USA), HOFER, Christian (University of Arkansas, USA), DRESNER, Martin (University of Maryland, USA)
  - 277 The Impact of Fifth-Freedom Traffic on Network Performance of European Airports; VOLTES-DORTA, Augusto (University of Edinburgh Business School), SUAU-SANCHEZ, Pere (Cranfield University, United Kingdom), RODRIGUEZ-DENIZ, Hector (Universidad de Las Palmas de Gran Canaria, Spain)
  - 339 Liability of Air Carrier and Passenger Rights in Passenger Carriage by Air in Turkey; GÖKTEPE, Hülya (Anadolu University, Turkey)
  - 2 Old and New Threats: Blood, Tears and Salvation!; FOX, Sarah Jane (Buckinghamshire New University, United Kingdom)
- V-F **Aviation Case Studies (5)**
- Room #1359* Chair: Andreas PAPANATHANASSIOU, University of the Aegean
- 276 Dynamics of the Global Airline Alliances; DAMERGI, Gezia (University of Paris 1 : Panthéon-Sorbonne, France)
  - 346 Aircraft Financing and Asset Management under Economic Volatility: Aircraft Market Outlook & Strategy: Is There Enough Market in the Narrow Body Segment for New Entrants?; MANCILLA, Darcy Olmos (Aviation Business & Finance Consultant, France)
  - 94 Aerophobia; LAINOS, Yiannis S. (Greece)
  - 177 Analysis of Competition between Iranian and Foreign Airlines by Using Discrete Choice Model; TARI, Majid Zabihi (Tarbiat Modares University, Iran), MAZAHARI, Akram (Tarbiat Modares University, Iran), SAFFARZADEH, Mahmoud (Tarbiat Modares University, Iran), ABRISHAMI, Seyed Ehsan (Tarbiat Modares University, Iran)

- 65 From Low-Cost Airlines to Low-Cost High-Speed Trains: The French Case; DOBRUSZKES, Frédéric (Brussels Free University, Belgium), DELAPLACE, Marie (Université de Paris-Est Marne-la-Vallée, France)

V-G **Air Transport Demand (4)**

- Room #1360 Chair: Eddy VAN DE VOORDE, University of Antwerp
- 172 Extra Cost for Airlines' Premium Economy Class: The Perspective of Passengers; KUO, Chung-Wei (Aletheia University, Taiwan), JOU, Rong-Chang (National Chi Nan University, Taiwan), WANG, Yu-Ping (National Chi Nan University, Taiwan), TANG, Mei-Ling (Chenkuo Technology University, Taiwan)
- 232 Inter-Regional Passenger Demand Survey by Using Web Site: Data Quality and Limitations; TSUKAI, Makoto (Hiroshima University, Japan)
- 250 A User Preference Analysis for a Hypersonic Air Transportation Service; MINATO, Nobuaki (Keio University, Japan), KOBAYASHI, Toma (Keio University, Japan)
- 254 Spending Time or Spending Money? The Effect of Trip Purpose and Temporal Distant on Air Passengers' Willingness to Pay of Travel Package; JEN, William (National Chiao Tung University, Taiwan), LU, Mingying (National Chiao Tung University, Taiwan)
- 400 Demand Estimation Methodology For A New Air Route; CHOI, Jong Hae (Incheon International Airport Corporation)

V-H **Aviation Safety and Security (5)**

- Room #1362 Chair: Andreas KNORR, German University of Administrative Sciences Speyer
- 3 Ambiguity in Leadership Communication: A Latent Hazard in the Aviation Community?; BURROWS-McELWAIN, J. Bryan (University of Maryland University College, USA), DABIPI, I.K. (University of Maryland Eastern Shore)
- 265 The Effect of Workplace Stress on Perceived Performance - The Mediating Role of Crew Resource Management: A Study of Airline Pilots; SORAN, Semih (Ozyegin University, Turkey), BALKAN, M.Onur (Afyon Kocatepe University, Turkey)
- 152 Automated Meteorological Reports from Commercial Aircraft - Improving Weather Forecasts and Aviation Safety and Efficiency; PETERSEN, Ralph A. (University of Wisconsin – Madison, USA), CRONCE, Lee (University of Wisconsin – Madison, USA)
- 90 Research Concerning Passenger Mobbing on Security Personnel and Its Effect on Their Job Satisfaction in Air Transportation; ERGUN, Nalan (Anadolu University, Turkey)
- 57 Challenges in Implementation of the Safety Management System in Aircraft Maintenance: A Qualitative Analysis; GEREDE, Ender (Anadolu University, Turkey)

V-K **Intermodal and Air Travel Alternatives (2)**

- Room #1363 Chair: Evy ONGHENA, University of Antwerp
- 43 Airline Network Choice and Market Coverage under High-Speed Rail Competition; JIANG, Changmin (University of British Columbia, Canada), XIAO, Yibin (University of Electronic Science and Technology of China, China), ZHANG, Anming (University of British Columbia, Canada)
- 181 Would Competition between Air Transport and High Speed Rail Benefit Environment and Social Welfare?; BRACAGLIA, Valentina (Università di Roma, Italy), D'ALFONSO, Tiziana (Università di Roma, Italy), JIANG, Changmin (University of British Columbia, Canada)

- 237 Performance Indicators to Assess Intermodal Concepts; PAUL, Annika (Bauhaus Luftfahrt e.V, Germany), URBAN, Marcia (Bauhaus Luftfahrt e.V, Germany), LANGFERMANN, Paul (Bauhaus Luftfahrt e.V, Germany)
- 337 A Study on the Impact of HSR on the Aviation Sector in View of the Recent Japanese Case; HAYASHI, Taizo (University of Tokyo, Japan)
- 380 Air and HST Multimodal Products - Travelers' Attitudes, Preferences and Choices; BRIDA, Juan Gabriel (Free University of Bozen-Bolzano, Italy ), MARTIN, Juan Carlos (University of Las Palmas de Gran Canaria, Spain), SCUDERI, Raffaele (Free University of Bozen-Bolzano, Italy ), ROMAN, Concepcion (University of Las Palmas de Gran Canaria, Spain)

16:00-16:30 **Coffee Break supported by KOTI (The Korea Transport Institute)**

Ground  
Floor

16:30-18:00 **Concurrent Session VI**

VI-A **Airport Strategy, Management and Operations (8)**

Room #1215 Chair: Anderson CORREIA, ITA

- 108 Performance Indicators for the Ground Access at Airports; DIMITRIOU, Dimitrios J. (Democritus University of Thrace, Greece )
- 134 Satisficing Game Theory for Collaborative Decision Making with Multi-Entities in Airport; LI, Weigang (University of Brasilia, Brazil), De ALMEIDA, Cicero (University of Brasilia, Brazil), MEINERZ, Giovani Volnei (Civil Aviation Secretariat of Brazil's Presidency - SAC-PR, Brazil)
- 60 Analysis of Rio De Janeiro International Airport's Future Runway Capacity ; De CASTRO FORTES, Joao Luiz (Aeronautics Institute of Technology, Brazil), MULLER, Carlos (Aeronautics Institute of Technology, Brazil)
- 87 A Model to Estimate Apron Capacity at Hub Airports; MIRKOVIC, Bojana (University of Belgrade, Serbia), TOSIC, Vojin (University of Belgrade, Serbia )
- 278 Improved Surface Access at Low Cost Airports: Preferences by Business and Leisure Travellers for Pedestrian Facilities at Kuala Lumpur International Airport, Malaysia; ANUAR, Nur Khairiel (Cranfield University, United Kingdom), SABAR, Rohafiz (University Utara Malaysia, Malaysia)

VI-B **Airline Economics (3)**

Room #1216 Chair: Gianmaria MARTINI, University of Bergamo

- 45 Value of a Platform to A Seller: Case of American Airlines and Online Travel Agencies; BILOTKACH, Volodymyr (Newcastle University, United Kingdom)
- 95 Fuzzy Logic Application for Pricing Strategy in Revenue Management for Airline Operations; KRYKHTINE, Fabio (Federal University of Rio de Janeiro, Brazil), RAYMUNDO, Luis (Federal University of Rio de Janeiro, Brazil), COSENZA, Carlos (Federal University of Rio de Janeiro, Brazil), DA COSTA, Katia Moco (Federal University of Rio de Janeiro, Brazil)

238 Can Differentiated Carriers Constrain the Market Power of Merged Airlines? - The case of Chinese Inter-city Transport Market; CHEN, Ruowei (Shanghai Aircraft Design and Research Institute, COMAC, China), FU, Xiaowen (University of Sydney, Australia)LEI, Zheng (University of Surrey, United Kingdom)

47 The Paradox of Airline Competition for Passengers with Reduced Mobility (PRM); ANCELL, Debbie (University of Westminster, United Kingdom)

VI-C **Air Traffic Control (2)**

Room #1219 Chair: Fang-Yuan CHEN, Feng Chia University

142 Encouraging Change in Air Traffic Control: Learning from the Airline and Airport Markets; ADLER, Nicole (Hebrew University of Jerusalem, Israel)

52 Service Level Expectation Setting in Air Traffic Flow Management; BALL, Michael O. (University of Maryland, USA)

311 Accelerating Change by Regional Forerunners (ACCHANGE): Taking Stock of Parallel Experience; DELHAYE, Eef (Transport & Mobility Leuven & KU Leuven, Belgium), FREDERIX, Rodric (Transport & Mobility Leuven, Belgium), MARTENS, Bernard (Core-Invest, Belgium), ADLER, Nicole (Hebrew University of Jerusalem, Israel), PROOST, Stef (KU Leuven, Belgium), OFFERMAN, Hans (MovingDot, The Netherlands)

112 Investigating the Operational Consequences of out the Window View Replacement by ASDE-X in the Air Traffic Control Tower ; GRIFFIN, John (Embry-Riddle Aeronautical University, USA), LIU, Martin (Embry-Riddle Aeronautical University, USA)

336 Typology of Air Traffic Control Charges and Efficient Use of Airspace; YUGUCHI, Kiyotaka (Sagami Women's University, Japan)

VI-D **Aviation Case Studies (6)**

Room #1220 Chair: Yimin ZHANG, CEIBS

131 Modelling Choice Behavior of Airlines for Family Air Travel: A Case Study in Taiwan; LU, Jin-Long (National Kaohsiung Maritime University, Taiwan)

292 Multi-Airport Market Development Strategies - A Case Study in Western Taiwan; WONG, Jinn-Tsai (National Chiao-Tung University, Taiwan), HSIAO, Chieh-Yu (National Chiao-Tung University, Taiwan), LI, Han-En (Taiwan)

295 Air Transport Agent-Based Simulation Model: A Case Study of European-Asian Markets; ANTUNES, Antonio Pais (University of Coimbra, Portugal), LOPES, Rodrigo M.F. (University of Coimbra, Portugal), ADLER, Nicole (Hebrew University of Jerusalem, Israel)

195 Customer Satisfaction with Air Services in Kiribati; PEREZGONZALEZ, Jose D. (Massey University, New Zealand), TEIKAKE, Aako (Massey University, New Zealand)

VI-E **Air Transport Policy & Regulation (4)**

Room #1358 Chair: Frédéric DOBRUSZKES, Brussels Free University

139 Airline Passenger Protection Regulations: Does the Patchwork Work?; CORREIA, Vincent (Paris-Sud University, France), ROUISSI, Noura (European Commission, Belgium)

- 230 Does the Public Subsidy to Direct Air-Service Always Improve the Welfare of Consumers?; YAMAGUCHI, Hiromichi (Tohoku University, Japan), OKUMURA, Makoto (Tohoku University, Japan)
- 260 Minimum Travel Times between European Regions - An Assessment of the ACARE 4h-Goal; GRIMME, Wolfgang (German Aerospace Center (DLR), Germany), NIESSE, Hendrik (German Aerospace Center (DLR), Germany)
- 322 Air Passenger Rights in the EU: Where Do We Stand, and What Should Come Next?; KNORR, Andreas (German University of Administrative Sciences Speyer, Germany), HIPPE, Claudia (German University of Administrative Sciences Speyer, Germany); EISENKOPF, Alexander (Zeppelin University Friedrichshafen, Germany)
- 76 Forms of Airport Regulation and Resultant Service Quality: A Comparison of Light-Handed Regulation vs. Price-cap Regulation; YANG, Hangjun (University of International Business and Economics, China), FU, Xiaowen (University of Sydney, Australia)

VI-F **Human Resources Management in Air Transport**

Room #1359

Chair: Ryu TANJI, J.F. Oberlin University

- 170 An Analysis on the Determinants of Organizational Effectiveness by Personal Types of Airline Cabin Crew; YAE, Kyung-Hee (Korean Airlines, South Korea), CHOI, Youn-Chul (Hanseu University), CHOI, Jin-Young (Graduate School of Leiden University, South Korea)
- 240 An Employee Recruitment System Based on Fuzzy Analytic Hierarchy Process for Cabin Crew; BULBUL, Kubra Gulnaz (Anadolu University, Turkey)
- 31 A Tool for Alleviating Pilot Shortage: Recruitment of Women and Minorities into Aviation; OPENGART, Rose (Embry-Riddle Aeronautical University - Worldwide, USA), RIETSEMA, Kees (Embry-Riddle Aeronautical University - Worldwide, USA)
- 79 Airline Employees' Moral Characteristics; LU, Whei-Li (Chinese Culture University, Taiwan)
- 219 The Availability of Jobs in the European Air Transport and Aeronautics Sector; GHIJS, Stefaan (Delft University of Technology, The Netherlands), STRUYF, Els (University of Antwerp, Belgium), KUPFER, Franziska (University of Antwerp, Belgium)
- 1 Focused Leadership; COBURN, Todd D. (California State Polytechnic University Pomona, USA)

VI-G **Aviation & Tourism (2)**

Room #1360

Chair: Triant FLOURIS, Hellenic American University

- 167 Linkage of Airport Strategic Capabilities and Tourism Development; DIMITRIOU, Dimitrios (Democritus University of Thrace, Greece), MOURMOURIS, John C. (Democritus University of Thrace, Greece), SARTZETAKI, Maria F. (Democritus University of Thrace, Greece)
- 226 Low Cost Carriers and Tourism in the Midi-Pyrénées Region; NAPOLI, Jocelyne (University of Toulouse III, Paul Sabatier, France)
- 291 HAJJ, Cultural Tourism's Adjustment Difficulties to Air Transport; VERNY, Jerome (MOBIS - NEOMA Business School, France), VIGNERON, David (MOBIS - NEOMA Business School, France), DESNOULEZ, Isabelle (RDI Log, France)
- 314 Icelandic Tourism Profitability and Sustainability Strategies: The Facilitating Role of Aviation; METRASS-MENDEZS, Alda (The Icelandic Tourism Research Centre, Iceland)
- 51 Air Passenger Concentration and Seasonality Phenomena in the Eastern Aegean Area; POULAKI, Ioulia (University of the Aegean, Greece), PAPATHEODOROU, Andreas (University of the Aegean, Greece), EFTHYMIOU, Marina (University of the Aegean, Greece)

VI-H **Operations Research in Air Transport (1)**

- Room #1362 Chair: Uzi FREUND-FEINSTEIN, Technion Israel Institute of Technology
- 46 Flight Scheduling Problem with Time Window and Heterogeneous Fleet, Applied to a Fractional Ownership Jet Company; MAGALHAES, Jose Messias (Instituto Tecnológico de Aeronáutica (ITA), Brazil), MULLER, Carlos (Instituto Tecnológico de Aeronáutica (ITA), Brazil)
  - 100 A Sweep-Heuristic Algorithm for Carbon Emissions Model of Picking-up and Delivering Customers to Airport; YANG, Peiyong (China Academy of Civil Aviation Science and Technology, China), HU, Huaqing (China Academy of Civil Aviation Science and Technology, China), DONG, Likui (China Academy of Civil Aviation Science and Technology, China), YAO, Jinjin (China Academy of Civil Aviation Science and Technology, China)
  - 173 Aircraft Line Maintenance Planning Optimization; SHAUKAT, Syed (University of New South Wales, Australia), WU, Cheng-Lung (University of New South Wales, Australia)
  - 245 Implications of Hybrid-Energy Aircraft Concepts for Ground Handling Operations; SCHMIDT, Michael (Bauhaus Luftfahrt e.V., Germany), PAUL, Annika (Bauhaus Luftfahrt e.V., Germany), COLE, Mara (Bauhaus Luftfahrt e.V., Germany), PLOTNER, Kay Olaf (Bauhaus Luftfahrt e.V., Germany)
  - 371 Delay Management through Optimizing Ground and Flight Block Times; BAZARGAN, Massoud (Embry – Riddle Aeronautical University, USA)

VI-K **Intermodal and Air Travel Alternatives (3)**

- Room #1363 Chair: Juan Carlos MARTIN, University of Las Palmas GC
- 97 Airport Management and High Speed Railway; TAKEBAYASHI, Mikio (Kobe University, Japan)
  - 98 The Impact of High-Speed Rail on Airport Development in China; ZHENG, Peng (Beijing Jiaotong University, China)
  - 138 Passenger Characteristics and Their Mode Choice between Air Transport and High Speed Rail in China; HANAOKA, Shinya (Tokyo Institute of Technology, Japan), KANG, Shuyang (Tokyo Institute of Technology, Japan), TSUKAI, Makoto (Hiroshima University, Japan)
  - 30 Lessons from Airport to Have A Rail Port: A Reverse Benchmarking; BASTUG, Ismet (Anadolu University, Turkey), DURMAZ, Vildan (Anadolu University, Turkey)

**Sunday 20-Jul**

9:00-10:30 **Concurrent Sessions VII**

VII-A **Airport Case Studies (2)**

- Room #1215 Chair: Anne GRAHAM, University of Westminster
- 258 Empirical Analysis for Hub-Airport Choice as International Transit Point in Japan: Narita, Kansai and Chubu; AKAI, Nobuo (Osaka University, Japan), USAMI, Munekatsu (Osaka University, Japan)
  - 222 Congestion Spillover Effects on Transfer Traffic: The Case of London Heathrow; GUDMUNDSSON, Sveinn V. (Toulouse Business School, France), REDONDI, Renato (University of Brescia, Italy)

- 13 Airport Demand Management: The Case of Izmir Adnan Menderes Airport; YILDIRIM, Yilmaz (Anadolu University, Turkey), DURMAZ, Vildan (Anadolu University, Turkey)
- 84 Developing Corporate Social Responsibility Strategies for Taiwan's Taoyuan International Airport; CHANG, Yu-Hern (National Cheng Kung University, Taiwan), YEH, Chung-Hsing (Monash University, Australia), CHAO, Wen-Chi (National Cheng Kung University, Taiwan)
- 129 Apron Capacity Analysis and Estimation after Magong Airport Runway Expansion; LI, Sui-Ling (National Penghu University of Science and Technology, Taiwan)

VII-B **Airline Network Development (1)**

Room #1216 Chair: Richard KLOPHAUS, Worms University of Applied Sciences

- 274 Alliance, Codeshare, Airline? - Defining Online Connections in Connectivity Analysis; BURGHOUWT, Guillaume (SEO Economic Research, The Netherlands), BOONEKAMP, Thijs (SEO Economic Research, The Netherlands), LIESHOUT, Rogier (SEO Economic Research, The Netherlands)
- 191 Analysis of Robustness of Alliance Route Networks; SALLAN, Jose M. (Universitat Politècnica de Catalunya - BarcelonaTech, Spain), LORDAN, Oriol (Universitat Politècnica de Catalunya - BarcelonaTech, Spain), SIMO, Pep (Universitat Politècnica de Catalunya - BarcelonaTech, Spain), GONZALEZ-PRIETO, David (Volotea, Spain)
- 123 Developing the Value Measurement Model of Air Route; OH, Sung-Yeoul (The Korea Transport Institute, South Korea), PARK, Yonghwa (Inha University, South Korea), LEE, Sang Yong (Incheon International Airport Corporation, South Korea)
- 124 What Factors Impact Chinese Private Airlines Network Development?; WU, Chuntao (Sichuan University, China), LI, Zhiyong (Sichuan University, China), DOU, Yi (National Institute for Environmental Studies, Japan)

VII-C **Airline Economics (4)**

Room #1219 Chair: Volodymyr BILOTKACH, Newcastle University Business School

- 369 Abnormal Returns of Airline Alliances Involving Codeshare Agreement and FFP Cooperation; LI, Michael Z.F. (Nanyang Technological University, Singapore)
- 347 Market Structure and Aviation Industry Performance - A Comparison between China and the United States; FU, Xiaowen (University of Sydney, Australia), CHEN, Rouwei (Shanghai Aircraft Design and Research Institute, COMAC, China), LEI, Zheng (University of Surrey, United Kingdom), FAN, Xingli (Academy of Civil Aviation Science and Technology, China)
- 81 The Effects of Airline Strategic Alliance Group on Member Airlines' Productivity and Profitability; LIN, Bo (Massey University, New Zealand)
- 329 Stand up for Your Flight; ALDERIGHI, Marco (University of Aosta Valley, Italy)

VII-D **Aviation Case Studies (7)**

Room #1220 Chair: Yeong Heok LEE, Korea Aerospace University

- 327 Fitting the Network as a Merger Grants New Airport Access: The Entry and Expansion of Azul Airlines at Sao Paulo/Guarulhos Airport; OLIVEIRA, Alessandro (Latin American Center for Transportation Economics, Brazil), BETTINI, Humberto (Aeronautics Technological Institute, Brazil)



- 203 A Study of Operational Efficiency and Technology Gap Using a Metafrontier Function Approach for Major Airline Company in Asia; LAI, Po-Lin (Chung-Ang University, South Korea), CHEN, Ying-Hsiu (Yuanpei University, Taiwan)
- 72 Impact of Bird Strikes on Aircraft Operation and Prevention Methods Case Study: Iranian Airports; BAGHERI, Seyed Ramtin (Tarahan Parseh transportation research institute, Iran), SAFFARZADEH, Mahmoud (Tarahan Parseh transportation research institute, Iran ), VASIGH, Bijan (Embry Riddle Aeronautical University, USA)
- 372 A Study on the Aptitude Test of Remotely Piloted Aircraft Pilots; PARK,Wontae (Hanseo University, South Korea), LEE, Kangseok (Hanseo University, South Korea)
- 253 Comparison of Aviation Management Departments' Academic Programs in Turkey and United States; UNDER, Ilker (Anadolu University, Turkey), BAYRAK, Umran (Anadolu University, Turkey)

VII-E **Air Transport Policy & Regulation (5)**

Room #1358

Chair: Wolfgang GRIMME, DLR

- 34 A Benchmarking Framework for Aviation Policy Development: A Case Study on Jordan; ITANI, Nadline (Cranfield University, United Kingdom), O'CONNELL, John F. (Cranfield University, United Kingdom), MASON, Keith (Cranfield University, United Kingdom)
- 374 The Economics of Air Space: Promoting a Slot Auctioning System for Departure Time Allocation in Indonesian Airports; PARIKESIT, Danang (Gadjah Mada University, Indonesia), SAFRILAH (Bakrie University, Indonesia ), PERMANA, Yusa C. (The Indonesia Transportation Society, Indonesia)
- 10 Is Economic Regulation for Transfer Traffic Warranted at Lima's Airport; DEFILIPPI, Enzo (Universidad del Pacifico, Peru)
- 192 Identifying Training Needs Associated with the Implementation of the Aviation System Block Upgrades; LUTTE, Becky (University of Nebraska at Omaha Aviation Institute, USA)

VII-F **Airline Strategy, Management and Operations (2)**

Room #1359

Chair: Koki NAGATA, University of Maryland

- 262 Evaluating Fuel Hedging Strategies and Impact on Airlines Financial Performance; YETIM, Elif (Turkish Airlines General Management Building, Ataturk Airport, Turkey), AKCA, Zeliha (Turkish Airlines General Management Building, Ataturk Airport, Turkey)
- 55 Establishing A Benchmark of Fuel Efficiency for Commercial Airline Operations; CHANDRA, Samuel (Swinburne University of Technology, Australia), CHITGOPEKER, Chetan K. (Swinburne University of Technology, Australia), CRAWFORD, Ben (Swinburne University of Technology, Australia), DWYER, John (Swinburne University of Technology, Australia), GAO, Yi (Swinburne University of Technology, Australia)
- 197 Fuel Hedging as A Strategy for Improved Profitability? - An International Comparison; MERKERT, Rico (University of Sydney Business School, Australia), YU, Anyuan (University of Sydney Business School, Australia)
- 360 Airline Choices for the Future: The Way Forward; IATROU, Kostas (Air Transport News, Greece), MALIK, Bassam Tariq (Westminster University, United Kingdom)

VII-G **Operations Research in Air Transport (2)**

- Room #1360 Chair: Moshe GIVONI, Tel-Aviv University
- 48 Airline Slot Time Management for Flight Schedule in Indonesia: A Case Study on Airport Gateway in East Indonesia; ADISASMITA, Sakti Adji (Hasanuddin University, Indonesia), HADIMARTO, Wijanto (Satyagama University, Indonesia)
  - 268 Connectivity at Hub Airports: The 'To Wait Or Not To Wait' Problem with Sequencing Decisions; SANTOS, Bruno F. (Delft University of Technology, The Netherlands), WORMER, Maarten (Delft University of Technology, The Netherlands), OMONDI, Thomas (Delft University of Technology, The Netherlands)
  - 306 A New Approach to Aircraft Route Optimization; AALAMI, Soheila (University of Calgary, Canada), De BARROS, Alex (University of Calgary, Canada)
  - 19 Operations Control Simulator: A Tool to Assist the Selection and Training of Controllers; BRUCE, Peter (Swinburne University of Technology, Australia)

VII-H **Aviation and Economic Development**

- Room #1362 Chair: Nigel DENNIS, University of Westminster
- 41 Partnership Innovation in Air Transport: The Rational for Cross-Border Joint Ventures in Emerging Economies; THWAITES, Louis Henry (Concordia University, Canada)
  - 216 Market-Based Measures for International Aviation Impacts on Developing Countries; ANGER, Annela (University of East Anglia, United Kingdom)
  - 273 The Economic Impact of Air Transportation and Tourism: A CGE Approach; NJOYA, Eric Tchouamou (University of Applied Sciences Bremen, Germany)
  - 201 Structural Inertia and Bankruptcy: Analysis of Airline Industry; OKABE, Noriko (Aoyama Gakuin University, Japan)

10:30-11:00 **Coffee Break supported by KOTI (The Korea Transport Institute)**

Ground  
Floor

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

VIII-A **Airport Case Studies (3)**

- Room #1215 Chair: Shinya HANAOKA, Tokyo Institute of Technology
- 9 A Kano Analysis on the Adoption of Self-Service Bag Drops at Singapore Changi Airport; SANTONINO III, Michael D. (Embry-Riddle Aeronautical University Worldwide, Italy), YANG, Changhwan (Société Internationale de Télécommunication Aéronautique, Singapore)
  - 5 Safety Evaluation of Runway Safety Areas: Case Study at Major Brazilian Airports; CORREIA, Anderson Ribeiro (Aeronautics Institute of Technology, Brazil), NETO, Julio Alves Ribeiro (Aeronautics Institute of Technology, Brazil)
  - 12 The Effect of Aircraft Parking Stands on Airport Capacity: The Case of Istanbul Ataturk International Airport; APAYDIN, Muhittin (Anadolu University, Turkey), DURMAZ, Vildan (Anadolu University, Turkey)
  - 382 Some Insights into the Market Spill Recapture Model for Demand Un-constraining; WU, Richard (University of New South Wales, Australia), DRABAS, Tomek (University of New South Wales, Australia)

- 302 Presentation and Use of Evaluation Model about Lack of Country Airports - Case Study: Six International Airports; HASSANPOUR, Shahab (Ayat-allah-Borujerdi University and Iran Science and Technology University, Iran), MIRBAHA, Babak (Zanjan Branch of Islamic Azad University, Iran), BEHESHTY, Amirhossein (Zanjan Branch of Islamic Azad University, Iran)

*VIII-B* **Air Cargo Forecasting, Management, Logistics and Operations (2)**

*Room #1216* Chair: Franziska KUPFER, University of Antwerp

- 89 An Air Express Parcel from Door-to-Door: Cost Items and Cost Drivers; ONGHENA, Evy (University of Antwerp, Belgium)
- 114 Lean Six Sigma Readiness Assessment for Air Cargo Ground Handlers; KONTOS, Gerasimos (University of the Aegean, Greece), PAPTHERODOROU, Andreas (University of the Aegean, Greece)
- 174 Viracopos International Airport (SBKP) as A Catalyst for Urban Development; DE MELLO, Luciana Lins (Technological Institute of Aeronautics, Brazil), COELHO, Bruna Paganelli A. (Technological Institute of Aeronautics, Brazil), SANTOS, Emmanuel Antonio dos (Technological Institute of Aeronautics, Brazil), OLIVEIRA, Rafaela M. (Technological Institute of Aeronautics, Brazil)

*VIII-C* **Airline Network Development (2)**

*Room #1219* Chair: Xiaowen FU, University of Sydney

- 21 Fly from Australia to Europe Via China? - A Qualitative Analysis of Australian Travelers' Choice of Chinese Carriers on the Australia - Europe Route; GAO, Yi (Swinburne University of Technology), KOO, Tay T.R. (University of New South Wales), QIN, Rong (RMIT University, Australia)
- 22 Prospects of Direct EU – US Routes by Emirates: An Exploratory Assessment; KLOPHAUS, Richard (Worms University of Applied Sciences, Germany)
- 82 Evaluating and Comparing Airline Efficiency in 2013; QIU, Yifan (Massey University, New Zealand), LIN, Bo (Massey University, New Zealand), CAO, Ao (Massey University, New Zealand), LI, Kaiwen (Massey University, New Zealand), SHEN, Leilei (Cranfield University, United Kingdom)
- 316 Study on the Evolution of the Air Transportation Network of Azores, Portugal; ANTUNES, Antonio Pais (University of Coimbra, Portugal), SANTOS, Miguel G. (University of Coimbra, Portugal), PITA, Joao P. (University of Coimbra, Portugal), MENEZES, Antonio G. (University of Azores, Portugal)

*VIII-D* **Aviation Case Studies (8)**

*Room #1220* Chair: Michael Z.F. LI, Nanyang Technological University

- 271 Aircraft Noise Levels in the Vicinity of Ninoy Aquino International Airport in Runways 06/24 and 13/31; DELICANO, Joefreim A. (Philippine State College of Aeronautics, Philippines), ABAYA, Ernesto B. (University of the Philippines, Philippines), AJOC, Kit Lorenzo M. (Philippine State College of Aeronautics, Philippines), BARRIENTOS, Joseph P. (Philippine State College of Aeronautics, Philippines), OLFINDO, Mark Joel L. (Philippine State College of Aeronautics, Philippines)
- 49 Study on Airline Hubbed in East Indonesia Facing the ASEAN Open Sky Policy; ADISASMITA, Sakti Adji (Hasanuddin University, Indonesia), ALI, Nur (Hasanuddin University, Indonesia), PASRA, Mubassirang (Hasanuddin University, Indonesia), RUNTULALO, Dantje (Hasanuddin University, Indonesia)

- 78 Assess the Impact of Noise from Aircraft Components at the IKIA Airport; FOROUHID, Amir Esmael (University of Science & Technology, Iran), KHAKI, Ali Mansour (University of Science & Technology, Iran), PANAHI, Mahdi Yazdan (University of Science & Technology, Iran)
- 355 Airline Sustainability: A Comparison between Iran-Air and Finair; SHABANIVERKI, Hesam (Tarahan Parseh Transportation Research Institute, Iran)

*VIII-E*      **Air Transport Policy & Regulation (6)**

*Room #1358* Chair:      Davide SCOTTI, University of Bergamo

- 198 Assessing the Equity Impact of the European Union Emission Trading Scheme on an African Airline; MIYOSHI, Chikage (Cranfield University, United Kingdom)
- 200 Analyzing Air Operators' Managerial Perceptions of Incentives for Regional Air Service Route Development within Europe; MERKERT, Rico (The University of Sydney Business School, Australia), O'FEE, Basil (Northpoint Aviation Services Ltd, Scotland)
- 313 Stakeholder-Based Analysis of Air Transport Policies for Small Remote Communities: A Cross-Country Examination; METRASS-MENDEZS, Alda (The Icelandic Tourism Research Centre, Iceland), De NEUFVILLE, Richard (Massachusetts Institute of Technology, USA), COSTA, Alvaro (University of Porto, Portugal), OLIVEIRA, Alessandro V.M. (Aeronautics Institute of Technology, Brazil)
- 376 EU AVSEC Regulations and Validations: Theory and Practice; RICHTER, Bryan (AMARANTE International, France )

*VIII-F*      **Marketing in Air Transport (2)**

*Room #1359* Chair:      Augusto VOLTES-DORTA, University of Edinburgh Business School

- 23 The Relationship between Airline Service Recovery and Customer Satisfaction; JENG, Chi - Ruey (Shu-Te University, Taiwan)
- 247 Service Failure and Recovery in the Airline Industry: Moderating Effects of FSC/LCC Passengers; LEE, Seung Chang (Korea Aerospace University, South Korea ), KIM, Min Jeong (Korea Aerospace University, South Korea)
- 341 Optimizing Consumer Preference in Airline Scheduling; NENEM, Sukru (University of Westminster, United Kingdom), DENNIS, Nigel (University of Westminster, United Kingdom), GRAHAM, Anne (University of Westminster, United Kingdom)

*VIII-G*      **Operations Research in Air Transport (3)**

*Room #1360* Chair:      Michael BALL, University of Maryland

- 50 Modelling Flexibility at Lisbon Airport Terminals; MAGALHAES, Liliana (University of Lisboa, Portugal), REIS, Vasco (University of Lisboa, Portugal), MACARIO, Rosario (University of Lisboa, Portugal)
- 168 A Multi-Objective Model for Helicopter Replacement and Pilot Training; TANG, Ching-Hui (National Taiwan Ocean University, Taiwan), HUANG, Hsin-Ta (Kainan University, Taiwan)
- 234 Review of Decision Support Systems in Air Transport System; IVANOV, Nikola (University of Belgrade, Serbia), NETJASOV, Fedja (University of Belgrade, Serbia)
- 62 A New Passenger Boarding Strategy Based on Transferring Interferences; REN, Xinhui (Civil Aviation University of China, China), TANG, Shaoyong (Civil Aviation University of China, China)

- 326 Airports as Open System of Material Flow or: What Can We Learn from Factories? - State of the Art Optimization and Simulation; BUBALO, Branko (University of Hamburg, Germany), VOSS, Stefan (University of Hamburg, Germany)

VIII-H

**Air Traffic Control (3)**

Room #1362

Chair: Seock-Jin HONG, Kedge Business School in Bordeaux

- 143 Benchmarking Air Navigation Service Providers in Europe; VOLTA, Nicola (Southern Denmark University, Denmark), ADLER, Nicole (Hebrew University of Jerusalem, Israel)
- 73 Evaluation of RNP Arrival Procedures in Rio De Janeiro Terminal Area; PAMPLONA, Daniel Alberto (Aeronautics Institute of Technology (ITA), Brazil), MULLER, Carlos (Aeronautics Institute of Technology (ITA), Brazil), ALVES, Claudio Jorge P. (Aeronautics Institute of Technology (ITA), Brazil)
- 308 Optimal Design of Delay Reduction Contract in EU Air Traffic Management; WANG, Chunan (Toulouse School of Economics, France)
- 29 An Analysis of the Potential Benefits of Improved Surveillance in the Kabul Flight Information Region ; POST, Joseph (Federal Aviation Administration, USA), WELLS, Michael (Federal Aviation Administration, USA), SHRESTA, Sanjiv (Federal Aviation Administration, USA)
- 190 Study of Predictors of Taxi Times at BCN Barcelona-El Prat Airport; SALLAN, Jose M. (Universitat Politècnica de Catalunya - BarcelonaTech, Spain), ARROYO, Marta, Valenzuela (Universitat Politècnica de Catalunya - BarcelonaTech, Spain), LORDAN, Oriol (Universitat Politècnica de Catalunya - BarcelonaTech, Spain)

12:30-14:00

**General Assembly & Closing Ceremony**

Room:

Chair: Martin Dresner, University of Maryland and ATRS President

Amphi 1136