







TRS





CONFERENCE PROGRAMME

TUESDAY, 2 JULY

9.00-15.00	Meeti	ngs (by invitation only). Room: 1D-08			
9:00-2	11:00	ATRS Executive Committee Meeting			
11:00	-12:30	ATRS Networking Committee Meeting			
12:30	-13:30	Lunch. Location: The Basket, offered by the Department of Spatial Economics			
13:30	-15:00	Airport Benchmarking Taskforce Meeting			
9:30-17:00	Ph.D.	Student and Junior Faculty Workshop Room: 2A00			
	(regist	ration required)			
9:30-2	11:00	Erik Verhoef (VU Amsterdam), "Double Counting Indirect Benefits of Transport Investments: How to Do It, How to Avoid It"			
11:00	-12:30	Nicole Adler (Hebrew University of Jerusalem), "Game Theory and Aviation Markets"			
12:30	-14:00	Lunch, offered by the Department of Spatial Economics			
14:00	-15:30	Rico Merkert (University of Sydney Business School), "Benchmarking in Aviation Management"			
15:30	-17:00	Aisling Reynolds-Feighan (University College Dublin), "Aviation Data Sources and Data Analysis"			

15:00-20:30 Conference Registration

19:00-20:30 Welcome Reception, offered by Houston Airports. Room: Foyer

WEDNESDAY, 3 JULY

09:00-09:10	Welcome Address Room: Auditorium					
Martin Dresner Pre	Martin Dresner President of ATRS					
Arjen van Witteloostuijn Dean of School of Business and Economics						
09:10-09:30	Keynote Speech I Room: Auditorium					
Richard Emmerink	Richard Emmerink Director of Corporate Development of Royal Schiphol Group)					
09:30-09:40	Keynote Speech II Room: Auditorium					
Udo Kock Deputy Mayor of Amsterdam						
09:40-10:10	Academic Keynote Speech Room: Auditorium					
Anming Zhang University of British Columbia						
10:20-11:00	Coffee Break					







Amsterdam	AT Transport Research
11:00-12:00	Panel Discussion: Environmental and Capacity Restrictions Room: Auditorium
Moderator: Jaap	de Wit
•	lent of the WCTR Society and Professor Emeritus, University of British Columbia Jniversity of Westminster
Pieter Cornelisse	•
Jagoda Egeland	International Transport Forum at the OECD
12:00-13:00	ATRS Global Airport Performance Benchmarking Project, Task Force Report and Excellence Award Presentation Room: Auditorium
Chair: Kelly Woo	dward Houston Airports
Chunyan Yu Em	bry-Riddle Aeronautical University
13:00-14:00	Lunch
14:00-15:30	Challenges and encertupities for the airport industry! Auditorium
	Challenges and opportunities for the airport industry Auditorium
-	da Egeland International Transport Forum at the OECD sociate Vice President, Governmental Affairs, Minneapolis–Saint Paul
International Airp	port
Greg Richardson Airport	Deputy General Manager & CFO, Hartsfield-Jackson Atlanta International
•	e Director, Airport Operations, Hong Kong International Airport
Petrouschka Wei Environment	rther Deputy Director, Aviation Department, Ministry of Infrastructure and
Jae Hee Park Di	rector of Airport Operation Department, Korea Airports Corporation
Eric Pels VU Am	
Achim Czerny ⊦	long Kong Polytechnic University
	hancing Safety and Operational Efficiencies through Industry
Cc	ollaboration Room: 2A00
Session Chair: An	astasios Plioutsias Assistant Professor of Safety & Human Factors,
Amsterdam Unive	ersity of Applied Sciences
14:00 - 14:20 Jes	us Rubio Director, Data and Digital Content, IATA Enhancing Safety and
Operational Effici	iencies through Industry Collaboration
14:20 - 14:40 Ma	ria Papanikou Associate Professor of Safety & Human Factors, Amsterdam
University of App	lied Sciences Towards Meaningful and Sustainable Data for Fatigue and
Mental Health in	Commercial Aviation: Pilot Typologies Considerations
14:40 - 15:00 Fre	nchez Pietersz, Bob Verkleij, Inge Kilian Amsterdam University of Applied
Sciences Aviation	n Academy The Challenges and Opportunities for the Pilots and Cabin Crew

Sciences, Aviation Academy | The Challenges and Opportunities for the Pilots and Cabin Crew Resource Planners

15:00 - 15:30 **Panel discussion** | Is Fatigue a Threat or an Opportunity for an Aviation Company? **Jesus Rubio**

Anastasios Plioutsias

Maria Papanikou

Frenchez Pietersz

Bob Verkleij Inge Kilian

> VUU VILLE UNIVERSITEIT AMSTERDAM





15:30-16:00 Coffee

16.00-17.30	Concurrent Session 1	
16:00-17:30	1-A	Aviation Policy
Room: Auditorium	Chair: 163	Rogier Lieshout SEO Amsterdam Economics Multiple-Airport Systems: The Development of Older Airports in View of Environmental Adverse Impacts (Frederic Dobruszkes, Free University of Brussels; Shinya Hanaoka, Tokyo Institute of Technology; Renato Redondi, University of Bergamo; Jiaoe Wang, Chinese Academy of Sciences; Bonaventure Loko, Free University of Brussels ULB)
	20	Expanding Airport Capacity of Cities under Uncertainty: Strategies to Mitigate Congestion (Matteo Balliauw, University of Antwerp; Evy Onghena, University of Antwerp)
	136	Options to Mitigate Negative Effects of Airport Capacity Constraints - A Discussion of Potential Mitigation Effects (Dieter Wilken, German Aerospace Center (DLR); Peter Berster, German Aerospace Center (DLR); Marc Gelhausen, German Aerospace Center (DLR))
	240	Effects of International Climate Policy on Aviation (Gabrielle Uitbeijerse, PBL Netherlands Environmental Assessment Agency; Hans Hilbers, PBL Netherlands Environmental Assessment Agency; Stefan Grebe, Significance B.V.)
16:00-17:30	1-B	Marketing & Consumer Behavior in Air Transport 1
Room: HG-01A33	Chair: 2	Li Zou Embry-Riddle Aeronautical University A Prediction Model of Consumer's Willingness to Fly in Autonomous Air Taxis (Winter Scott, Embry-Riddle Aeronautical University; Stephen Rice, Embry-Riddle Aeronautical University)
	49	The Impact of Low-Cost Airlines on Mobility Practices - Brussels South Charleroi Airport Case Study (Amandine Craps, Free University of Brussels (ULB); Catherine Dehon, European Centre for Advances Research in Economics and Statistics (ECARES)/Free University of Brussels (ULB); Frédéric Dobruszkes, Free University of Brussels (ULB))
	181	Applying Deep Learning Models on Twitter Data to Detect Airport Service Quality (Luis Martin-Domingo, Ozyegin University; Huda Barakat, Ozyegin University; Reyyan Yeniterzi, Ozyegin University)
	284	Spectral and Convolution Analysis between Air Traffic and Tourism Flow (Pong Lung Lau, University of New South Wales; Tay Koo, University of New South Wales)
	326	Measuring and Benchmarking Airlines' Quality of Service: A Proposed Methodology (Uzi Freund-Feinstein, Kinneret College; Uri Leibo, Kinneret College)





16:00-17:30	1-C	Airport Strategy & Management 1
Room: HG-02A33	44	Tae Oum University of British Columbia Towards Airport 4.0: Airport Digital Maturity and Transformation (Nigel Halpern, Kristiania University College; Thomas Budd, Cranfield University; Pere Suau-Sanchez, Cranfield University; Svein Brathen, Molde University College; Deodat Mwesiumo, Molde University College)
	128	Empirical Outcomes of Airport Capacity Expansion (Lynnette Dray, University College London)
	142	Identifying National Macro Environmental Factors Influencing the Performance of International Airports (Mohammed Chaouk, Cranfield University; Romano Pagliari, Cranfield University; Richard Moxon, Cranfield University)
	161	Substitution Effects in Complementary Airport Networks (Hao Lang, Hong Kong Polytechnic University; Achim Czerny, Hong Kong Polytechnic University)
	198	Airport Charges and Non-aeronautical Revenue: Panel Data Evidence from International Airports (Taejin Shin, Incheon International Airport Corporation; Taewoo Roh, Soonchunhyang University)
16:00-17:30	1-D	Aviation & Economic Development 1
Room: HG-02A24	Chair: 36	Perry Miller Jackson Municipal Airport Authority Privatization of State-Owned Airlines: An Analysis of Failures and Successes (Wali Mughni, Aviation Institute of Management)
	86	Conceptualising a Jaccard-Like Index for Bias Assessment in Air Transport Networks: The Case of the Bureau of Transport Statistics, Origin-Destination Survey (Filipe Alberto Marques Teixeira, Ghent University; Ben Derudder, Ghent University)
	102	Do Government Subsidies for Air Transport Work? Improve Regional Tourism and Economic Wellbeing (Kan Tsui, Massey University; Ngo Thanh, Massey University; Yi Hsin Lin, National Taichung University of Science and Technology; Hanjun Wu, Massey University)
	259	Spatial Effect of Aviation on Tourism (Flavio Porta, University of Bergamo; Gianmaria Martini, University of Bergamo; Davide Scotti, University of Bergamo; Elena Irina Ungureanu, University of Bergamo)
	69	Economic Impacts of ASEAN Open Sky Agreement to National Economy of the Member Countries (Tomoki Ishikura, Tokyo Metropolitan University; Shinya Hanaoka, Tokyo Institute of Technology; Mikio Takebayashi, Kobe University)
16:00-17:30	1-E	Air Transport Policy & Regulation 1
Room: HG-02A16	Chair:	Xingwu Zheng Civil Aviation University of China







	56 93	Market Concentration of Air Service in Europe (Tobias Grosche, Worms University of Applied Sciences; Richard Klophaus, Worms University of Applied Sciences) Slot Hoarding: Do Carriers Deliberately Underutilize Scarce Resources at Congested Airports? (Hideki Fukui, Ehime University)
	154	The Effects of the Open Skies Agreement on the Demand and Fare of Air Transportation: The Case of East Asia (Mina Chae, Inha University; Tae Seung Kim, Inha University)
	193	On the Applicability of Yardstick Competition to Airport Regulation (Mattia Cattaneo, University of Bergamo; Sebastian Birolini, University of Bergamo; Paolo Malighetti, University of Bergamo; Chiara Morlotti, University of Bergamo; Renato Redondi, University of Bergamo)
	17	"Active, Progressive, Orderly": How Does China Relax the Restrictions on Its International Air Transport? (Xingwu Zheng, Civil Aviation University of China; Yi Zhang, Civil Aviation University of China)
16:00-17:30	1-F	Airline Network Development 1
Room: HG-01A32	Chair: 66	Martin Dresner University of Maryland Airline Competition and Policy for Socially Optimal Air Network (Yushi Tsunoda, Kobe University; Ryohei Yamamoto, Kobe University/Waterfront Vitalization and Environment Research Foundation)
	114	The Impact of LCC'S Growth on the Air Networks of European FSCs (Davide Scotti, University of Bergamo; Martin Dresner, University of Maryland; Gianmaria Martini, University of Bergamo)
	122	Structure Analysis of Aviation Network in Southwestern District of China Based on Hierarchical Quantitative Relationship and Index Matrix (Xiangjun Cheng, Beijing Jiaotong University; Aihui Yu, Civil Aviation Management Institute of China; Xumei Chen, Beijing Jiaotong University)
	182	Market Structure and Network Optimality (Eric Pels, Vrije Universiteit Amsterdam)
	216	The Changing Competitive Landscape of Major Airlines in East Asia (Zhenran Zhu, University of British Columbia; Yahua Zhang, University of Southern Queensland; Anming Zhang, University of British Columbia)
16:00-17:30	1-G	Sustainability in Air Transport 1
Room: HG-02A36	Chair: 45	Tim Ryley Griffith University Biofuels Versus Synthetic Fuels: Which Is the Best Solution? (Janina Scheelhaase, German Aerospace Center; Sven Maertens, German Aerospace Center)







	124 279 32 217	The Exploratory Study of Carbon Offset and Carbon Tax Impacts on the Chinese Airline Industry (Bo Lin, ICL Graduate Business School; Benjamin Wu, RMIT University; Kan Wai Hong Tsui, School of Aviation Massey University; Zongling Li, OkAir) Towards Zero Emissions Aviation: Clever and Sustainable at the Global Level (Paul Peeters, Breda University of applied sciences) Innovative Air-Transport Policy Formulation & Analysis, Including Flight Scheduling, Conducive to Economic Growth and Sustainability: A Focus on Scheduling (Reza Hamzaee, Missouri Western State University) Climate Change Adaptation for the Aviation Industry: A Systematic Quantitative Literature Review (Tim Ryley, Griffith University; Liese Coulter, British Columbia Ministry of Agriculture, Innovation and Adaptation Service Branch, Victoria British Columbia)
16:00-17:30	1-H	Airport Case Studies
		•
Room: HG-02A37	Chair: 145	Franziska Kupfer University of Antwerp Adapting Automated People Mover Capacity on Airports to Real-Time Demand via Model-Based Predictive Control (Mark Van Doorne, AIRBIZ; Gabriel Lodewijks, University of New South Wales; Wouter Beelaerts Van Blokland, Delft University of Technology)
	144	Evaluating the Performance of Pilgrims Arrival Processing at Jeddah and Medina Airport Hajj Terminals: Identifying the Factors that Impede Flow Efficiency from the Perspective of the Airport's Employees (Alhussin K. Abudiyah, Cranfield University; Richard Moxon, Cranfield University; Romano Pagliari, Cranfield University)
	342	US Airline Consolidations and Airport Emissions: Lessons Learned from the Last Six Airline Mergers (Aleksandar Bauranov, Harvard University; Jasenka Rakas, University of California, Berkeley)
	215	A Study on the Effect of Low-cost Carriers to Major Hub Airport Operations (Suryoun Park, University of Antwerp; Franziska Kupfer, University of Antwerp; Yonghwa Park, Inha University; Evy Onghena, University of Antwerp)
16:00-17:30	1-J	Aviation Safety & Security 1
Room: HG-07A37	Chair: 57	Gabriel Lodewijks University of New South Wales Using Machine Learning Algorithms to Predict the Risk of Small Unmanned Aircraft System Violations in the National Airspace System (Dothang Truong, Embry-Riddle Aeronautical University; Woojin Choi, Embry-Riddle Aeronautical University)







	248 321	Public Risk Perception of Sub 2kg Remotely Piloted Aircraft: An Australian Case (Tay Koo, UNSW Sydney; Brett Molesworth, UNSW Sydney) Advanced Persistent Threat (APT) Cyberattack against Smart Airports and Intelligent Aircrafts: Risk Analysis and Mitigation
	147	(John Pyrgies, SkyAngels) Critical Mass - When Does a UAS (Drone) Become a Risk to Commercial Aviation? (Gabriel Lodewijks, University of New South Wales; Alan Smith, University of New South Wales)
16:00-17:30	1-K	Intermodal Operations & Modal Competition 1
Room: HG-05A37	Chair: 12	Michael Williams Embry-Riddle Aeronautical University Environmental and Social Welfare Impacts of Air-Rail Cooperation (Changmin Jiang, University of Manitoba)
	97	High-Speed Rail vs. Air Transportation: An Empirical Study on the Resilience of Multi-Modal Transportation in China (Xiaoqian Sun, Beihang University; Sebastian Wandelt, Beihang University; Chunxiao Zhang, Beihang University; Yifan Xu, Beihang University)
	109	Competition between High-speed Rail and Airlines with Heterogeneous Passengers (Yulai Wan, Hong Kong Polytechnic University)
	209	Which Is a Stronger Competitor HSR or LCC to FSC? Effects of HSR Network Extension and LCC Entry on FSC's Airfare in Japan (Jun Mizutani, Kobe University; Hiroki Sakai, Kobe University)
	29	Can High-Speed Rail be Successfully Integrated as an Intermodal Partner to Air Travel within the U.S. Transportation Network? (Michael Williams, Embry-Riddle Aeronautical University)
18:30-?	Specia	al Interest Group "Strategic Aviation Management" Social Session
	Inforn	nal get-together; details will be forthcoming via email

THURSDAY, 4 JULY

Concurrent Session 2	
2-A	Airline Strategy & Management 1
Chair: 22	Frankie O'Connell University of Surrey Decision-making Model for Commercial Aircraft End-Of-Life Phase Management: A Practical Approach to Support Aircraft Parking, Market Relocation, Retirement and Decommissioning Strategic Decisions (Flavio Soares de Oliveira Jr., National Civil Aviation Agency (ANAC); Elton Fernandes, Federal University of Rio de Janeiro; Laura Bahiense, Federal University of Rio de
	2-A Chair:







	38 58 60 245	Competitive Approaches of Scheduled Airlines Operating in Turkey (Huseyin Onder Aldemir; Ferhan Sengur, Eskisehir Technical University; Ibrahim Cemil Ulukan, Anadolu University) Use of Financial Derivatives by Airlines (Hari Adhikari, Embry- Riddle Aeronautical University) Historical Data Analysis of Global Airline Business Model Evolution (Marcia Urban, Bauhaus Luftfahrt e.V.; Milan Harnischfeger, Deutsche Lufthansa AG; Mirko Hornung, Bauhaus Luftfahrt e.V.) Factors Affecting Airlines: Outsourcing Decision in Ground Handling Activities (Umit Dogan, Anadolu University; Umit Dogan, Anadolu University; Nalan Ergun, Eskisehir Technical University)
9:00-10:30	2-B	Marketing & Consumer Behavior in Air Transport 2
Room: HG-01A33	Chair: 34	
	48	An Empirical Analysis of Flight Ticket Purchasing Behavior - Determining Generation's Level of Involvement for Different Network Strategies (Emilie Gremion, University of St. Gallen; Erik Linden, University of St. Gallen; Andreas Wittmer, University of St. Gallen)
	324	Airline Service Quality and Customer Satisfaction: Does Airline Operational Data Relate in Any Way to Customer Satisfaction Scores (Blaise Waguespack, Embry-Riddle Aeronautical University; Scott Ambrose, Embry Riddle Aeronautical University; Dawna Rhoades, Embry Riddle Aeronautical University)
	51	The Consumption Effect of Frequent Flier Programs (Christiaan Behrens, VU Amsterdam/SEO Amsterdam Economics; Jos Ommeren, VU Amsterdam; Gerben De Jong, SEO Amsterdam Economics)
9:00-10:30	2-C	Special Interest Group "Strategic Aviation Management" 1
Room: Auditorium		Chairs: Ulrike Kluge Bauhaus Luftfahrt and Erik Linden University of St. Gallen Strategic Partnerships between Airports, Airlines, and Academia (Berend Onnes, Schiphol Airport) Infrastructure Scarcity and the Future of Aviation in 2040 (Rene Puls & Erik Linden, Center for Aviation Competence-University of St. Gallen) Blockchain in the Aviation Industry: What Does It Mean and What Is the Real Impact? (Janik Jugl & Erik Linden, Center for Aviation Competence-University of St. Gallen)







9:00-10:30	2-D	Airline Economics & Performance 1
Room: HG-02A24	Chair: 73 100 211	Eddy Van de Voorde University of Antwerp Airline Competition in the North-Atlantic Market (Andrea Gualini, University of Bergamo; Michela Valli, University of Bergamo; Gianmaria Martini, University of Bergamo; Martin Dresner, University of Maryland) Impact of Aircraft Lease Types on Airlines' Financial Performance (Seock J. Hong, University of North Texas; Woongyi Kim, Hanseo University) Measuring the Competitiveness Level of Major Airlines Focusing on Korean Air (Kyeonghee Sung, Inha University; Tae
	296	Seung Kim, Inha University) The Leasing Puzzle in the Airline Industry (Sylvain Bourjade, Toulouse Business School; Catherine Muller-Vibes, Toulouse Business School)
9:00-10:30	2-E	Air Transport Policy & Regulation 2
Room: HG-02A16	Chair: 16	Rico Merkert University of Sydney Economic Gains Obtainable from Opening North Korean Airspace (Kwang Eui Yoo, Korea Aerospace University; Soo- dong Ha, Korea Aerospace University; Sihyun Yoo, TU Delft)
	88	An Exploration of Alternative Essential Air Service Support Mechanisms for the United Kingdom Following Its Withdrawal from the European Union (Romano Pagliari, Cranfield University)
	158	Research on the Market Structure and Evolution of China's Air Transportation: Based on the Data in 1998-2018 (Yan-Hua Li, Civil Aviation University of China; Yi-Ming Huang, Civil Aviation University of China; Ran Li, Civil Aviation University of China; Zheng Lei, Swinburne University of Technology)
	164	Measuring the Effects of Air Transport Liberalization on China's Bilateral Service Trade (Kun Wang, University of International Business and Economics; Tae Oum, University of British Columbia; Shaoxuan Liu, Ningbo Supply Chain Innovation Institute China; Zhengyang Shi, Shanghai Jiaotong University)
	214	Effective Control of the Drone Revolution: A Systematic Literature Review and Select Cases (Rico Merkert, University of Sydney Business School; James Bushell, University of Sydney)
9:00-10:30	2-F	Air Traffic Control 1
Room: HG-01A32	Chair: 39	Christian Hofer University of Arkansas An Analysis and Modeling Resilience of an ATC/ATM System /Airspace/Sector (Zoran Jaksic, Croatia Control Ltd.; Milan Janic, Delft University of Technology, Department of Transport & Planning)
	54	Cascading Failures in Airport Networks (Jose M Sallan, Universitat Politecnica de Catalunya; Joel Cumelles, Universitat
10		School of Business and Economics and Economics





	139 305 113	Politecnica de Catalunya; Oriol Lordan, Universitat Politecnica de Catalunya; Jose M Sallan, Universitat Politecnica de Catalunya) Potential Gains from ANSP Mergers in Europe (Sven Buyle, University of Antwerp; Wouter Dewulf, University of Antwerp; Franziska Kupfer, University of Antwerp; Evy Onghena, University of Antwerp; Hilde Meersman, University of Antwerp; Eddy Van de Voorde, University of Antwerp) Functional Analysis of Occupational Health and Safety in Air Navigation Services (Stylianos Zantanidis, Democritus University of Thrace; Dimitrios Dimitriou, Democritus University of Thrace; Konstandinidis Theodoros, Democritus University of Thrace) Competition for Air Traffic Management - Lessons Learned from the COMPAIR Project (Eef Delhaye, Transport & Mobility Leuven; Stef Proost, KU Leuven; Nicole Adler, Hebrew University of Jerusalem; Ricardo Herranz, Nommon; Javier Torres, Nommon; Roland Guraly, Slot Consulting)
9:00-10:30	2-G	Sustainability in Air Transport 2
Room: HG-02A36	Chair: 103 123 233	Mark Lijesen VU Amsterdam Corporate Social Responsibility and Performance: The Case of Chinese Airports (Ngo Thanh, Massey University; Qixia Tian, Massey University) Flight Behaviour of Long-Haul Commercial Aircraft in Formation Flight (Clemens Zumegen, RWTH Aachen University; Eike Stumpf, Institute of Aerospace Systems (ILR)) Chemical Composition in Near-Field Aircraft Plumes (Etienne Terrenoire, ONERA; Xavier Vancassel, ONERA; Weeded Ghedhaifi, ONERA; Emmanuel Montreuil , ONERA)
	253 344	Fuel (In)Efficiency of Ultra Long-haul Flights (Rogier Lieshout, SEO Amsterdam Economics) Airport Operational Energy Analysis and Optimization: Achieving the Zero Net Energy Goal (Jasenka Rakas, University of California, Berkeley; Pietro Antonelli Achatz, University of California, Berkeley; Grace Horvath, University of California, Berkeley; Andy Guan, University of California, Berkeley; Ye Suk Kim, University of California, Berkeley)
9:00-10:30	2-H	Air Cargo 1
Room: HG-02A37	Chair: 43	Evy Onghena University of Antwerp Assessing Financial Management Factors in the Air Cargo Industry Using an Interpretive Structural Modeling Approach (Robert Walton, Embry-Riddle Aeronautical University; Aman Gupta, Embry-Riddle Aeronautical University)







	143 184 185 188	Pricing Strategies for Air Cargo Carriers with Fixed Capacity (You Wu, University of Luxembourg; Benny Mantin, University of Luxembourg; Anne Lange, University of Luxembourg) Research on Selection of Air Express Hub Based on UMApHMP Model in China (Li Xie, Civil Aviation Management Institute of China; Xujuan Kuang, Civil Aviation Management Institute of China) An Optimisation and Forecast Framework for ULD Packing in the Air Cargo Supply Chain (Mike Koch, Delft University of Technology; Alessandro Bombelli, Delft University of Technology; Bruno Santos, Delft University of Technology) Competitiveness of Turkish Air Cargo Industry: Effects of Istanbul Airport (IGA) (Gokhan Tanriverdi, Anadolu University; Senay Lezki, Anadolu University)
9:00-10:30	2-J	Airport Strategy & Management 2
Room: HG-14A37		Guillaume Burghouwt Schiphol Aiport An Optimization Model for Airport Capacity Planning in the Metropolitan Areas (Woojin Choi, Embry-Riddle Aeronautical University; Dothang Truong, Embry-Riddle Aeronautical University) Strategic Cooperation between German Airports and Their Airlines (Sebastian Weber, Chemnitz University of Technology) Evaluation Framework to Support Decisions for Concession Commercial Activities at Airports (Dimitrios Dimitriou, Democritus University of Thrace; Maria Sartzetaki, Democritus University of Thrace; Simoni Lintzerakou, Democritus University of Thrace) General Aviation Airport Business Models of the Future (Ryan Leick, Utah Valley University; Aaron Organ, Utah Valley University; Jared Esselman, Utah Valley University; Noelle Johnson, West Minster College; Menoda Samuel, Utah Valley University) Estimating Airport Ground Transport Mode Choice Using Market Aggregate Data (Kun Wang, University of British
		Columbia; Jong Hae Choi, Incheon International Airport Corporation; Anming Zhang, University of British Columbia)
9:00-10:30	2-K	Intermodal Operations & Modal Competition 2
Room: HG-14A36	Chair: 50	Kazuyuki Takada Tokyo Denki University An Overview of Current Research and Developments in Urban Air Mobility - Setting the Scene for UAM Introduction (Anna Straubinger, Bauhaus Luftfahrt e.V.; Raoul Rothfeld, Bauhaus Luftfahrt e.V.; Michael Shamiyeh, Bauhaus Luftfahrt e.V.; Kai- Daniel Buechter, Bauhaus Luftfahrt e.V.; Jochen Kaiser,







	107	Bauhaus Luftfahrt e.V.; Kay Olaf Ploetner, Bauhaus Luftfahrt e.V.) A Bimodal Accessibility Analysis of Australia through Application Programming Interfaces (Sarah Meire, Ghent University; Ben Derudder, Ghent University)
	246	Mode Competition Analysis Framework for Regional Destinations: The Case of Greece (Aristi Karagkouni, Democritus University of Thrace; Dimitriou Dimitrios, Democritus University of Thrace; Sartzetaki Maria, Scientific Associate/ Democritus University of Thrace)
	311	Incumbent Responses to a Low-Cost Entry: Empirical Evidence from the German Airline Industry (Marieke Funck, University Paderborn)
	168	Impact of Sudden Continual Flight Cancels on Travel Behavior (Kazuyuki Takada, Tokyo Denki University; Kota Miyauchi, Tokyo Denki University)
10:30-11:00	Coffee	break
14 00 12 20	6	
11.00-12.30	Concu	rrent Session 3
11:00-12:30	3-A	Airline Strategy & Management 2
Room: HG-02A33	Chair:	Hongchang Li Beijing Jiaotong University
	11	The Impact of Football on the Air Transportation Industry: The Case of the UEFA Champions League (Nicole Kalemba, Universitat Oberta de Catalunya; Fernando Campa-Planas, Universitat Rovira i Virgili; Daniel Liviano Solis, Universitat Oberta de Catalunya)
	63	Airline Revenues 2035: Revenue Generation and Business Models in Commercial Aviation: A Scenario Study (Johannes Michelmann, Technical University of Munich; Annika Paul, Bauhaus Luftfahrt e.V.; Axel Becker, Airbus; Christoph Schneider, Flughafen München GmbH; Gilbert Tay, Technical University of Munich; Mirko Hornung, Technical University of Munich)
	64	Third Party Ancillary Revenues in the Airline Sector: An Exploratory Study (Mark Shaw, University of Limerick; Siobhan Tiernan, University of Limerick; John Francis O'Connell, University of Surrey; David Warnock-Smith, Buckinghamshire New University; Marina Efthymiou, Dublin City University)
	230	Modeling Passenger Dynamics and Activities at Airport Terminal Environment Using Real Trajectory Data (Ya-Han Ku, National Chiao Tung University; Yi-Shih Chung, National Chiao Tung University)
	183	Acceptability of Luggage Charge for Chinese Civil Aviation Passengers: A SP Survey Study (Hongchang Li, Beijing Jiaotong







University; Martin Dresner, University of Maryland; Lingqiu	
Wang)	

11:00-12:30	3-B	Marketing & Consumer Behavior in Air Transport 3
Room: HG-01A33	Chair: 137	Andreas Wittmer University of St. Gallen Measuring Airline Passenger Satisfaction and Dissatisfaction through Text Mining (Eren Sezgen, Cranfield University; Keith Mason, Cranfield University; Robert Mayer, Cranfield University)
	149	Cabin Services Innovation, Brand Experience and Customer Loyalty (Fang-Yuan Chen, Feng Chia University)
	303	Relation of Full-Service Airline Customers' Service Quality Sentiments to Value for Money Perception (Emircan Ozdemir, Eskisehir Technical University; Ozlem Atalik, Eskisehir Technical University)
	5	The Potential of Loyalty Programs for Leisure Carriers (Andreas Wittmer, University of St. Gallen; Mara Marchetti, University of Applied Sciences, Chur)
11:00-12:30	3-C	Special Interest Group "Strategic Aviation Management" 2
Room: Auditorium	Chairs	: Ulrike Kluge Bauhaus Luftfahrt and Erik Linden University of St. Gallen Understanding the Consumer Experience: Is It a Worthwhile Effort? (Isaac Henderson, Massey University School of Aviation) Pro-environmental Behavior in Air Travel: Is There a Market? (Antoine Habersetzer & Ulrike Kluge, Bauhaus Luftfahrt) The Nudging Effect of Eco-Labels in Aviation: What Does It Mean for Strategic Aviation Marketing? (Francesco Dorizzi, Swiss Airlines & Andreas Wittmer, Center for Aviation Competence-University of St. Gallen)
11:00-12:30	3-D	Airline Economics & Performance 2
Room: HG-02A24	Chair: 110	Volodymyr Bilotkach Newcastle University Empirical Examination of Airline Operating Lease Decisions: Identifying Macroeconomic, Profitability and Business Model Variables (Vitaly Guzhva, Embry-Riddle Aeronautical University; Guangxi Liu, Embry-Riddle Aeronautical University)
	138	Common Operating Factors of Aircraft Maintenance Cost for Commercial Airlines (Yukifumi Ueda, Tokyo Institute of Technology; Kazuyoshi Hidaka, Tokyo Institute of Technology)
	325	Subcontracted Air Transport Services in European and North American Markets (Aisling Reynolds-Feighan, University College Dublin)
	59	Competition on the UK-Australasia Market: Evidence from Skyscanner Data (Volodymyr Bilotkach, Singapore Institute of Technology; James Bedford, Rolls Royce)







11:00-12:30	3-E	Air Transport Policy & Regulation 3
Room: HG-02A16	Chair: 4	Anming Zhang University of British Columbia Cost Savings in Federal Employee Air Travel under the City Pair Program: Myth or Reality? (Kathleen Doody, University of Arkansas; Scott Limbocker, United States Military Academy; Andrew Dowdle, University of Arkansas)
	304	Airports and Tourism: New Evidence on the Italian Case (Cecilia Bartaloni, University of Aosta Valley)
	306	Neighbouring Airports and Issues Relating to Permissible State Aid in Aviation in Europe (Basil O'Fee, Northpoint Aviation Services Ltd.; Chris Cain, Northpoint Aviation Services Ltd)
	327	Skyport Planning & Design Standards for Urban Unmanned Aircraft Operations (Ryan Leick, Utah Valley University; Alan Cambell, AECOM; Jared Esselman, Utah Division of Aeronautics; Aaron Organ, Utah Valley University)
	345	Air Transport Subsidies in Europe (Frank Fichert, Worms University of Applied Sciences)
11:00-12:30	3-F	Air Traffic Control 2
Room: HG-01A32	Chair: 89	Stephen Ison De Montfort University Identification of Safety Critical Hazards to Support Future Air Traffic Controller Training (Bojana Mirkovic, University of Belgrade; Fedja Netjasov, University of Belgrade; Tatjana Krstic Simic, University of Belgrade; Obrad Babic, University of Belgrade)
	162	Cross Border Free Route Airspace Implementation - Performance Overview Methodology (Tamara Pejovic, EUROCONTROL; Antonio Lazarovski, EUROCONTROL)
	258	Robustness Analysis of the Northeast Asian Air Transport Network as a Complex Network (Seyun Kim, Korea Advanced Institute of Science and Technology (KAIST); Yoonjin Yoon, Korea Advanced Institute of Science and Technology (KAIST))
	266	A Study on Airspace Availability in Urban Areas for Small UAS Operation (Namwoo Kim, Korea Advanced Institute of Science and Technology (KAIST); Yoonjin Yoon, Korea Advanced Institute of Science and Technology (KAIST))
	315	Simulation Analysis of Multiple Runways Operation Considering Departure Delay Prediction and Arrival/Departure Sequencing (Qingqi Wang, Ibaraki University; Terumitsu Hirata, Ibaraki University; Shion Kubo, Ibaraki University)
11:00-12:30	3-G	Sustainability in Air Transport 3
Room: HG-02A36	Chair: 31	Thomas Budd Cranfield University The Emission Reduction Potentials of Substituting Air with Non- High-Speed Rail (Stefan Baumeister, University of Jyväskylä)







	228	Useless Flights? Environmental and Capacity Impacts of Airline Business Models (Thijs Boonekamp, SEO Amsterdam Economics; Valentijn Van Spijker, SEO Amsterdam Economics)
	274	Environmental Impact of Airspace Disruptions (Gerben de Jong, SEO Amsterdam Economics; Rogier Lieshout, SEO Amsterdam Economics)
	277	Analysis of the Results of Noise Mitigation Measures: A Comparison of the Tools of Reaction Chains and System Dynamics (Hansjochen Ehmer, DLR/IUBH)
	295	The Evolution of Airport Noise Management Strategies in the UK and ROI (Andrew Timmis, Loughborough University; Thomas Budd, Cranfield University)
11:00-12:30	3-H	Air Cargo 2
Room: HG-02A37	Chair:	Mikio Takebayashi Kobe University
	156	SkyBridge Arizona: International Air Cargo Model for the
	290	Future? (Thomas Drape, Embry-Riddle Aeronautical University)
	290	Network Analysis of Global Air Passenger and Cargo Co- Development (Tommy King-Yin Cheung, Swinburne University
		of Technology; Collin WH Wong, Hang Seng Management College)
	298	Single-Type Fleet Versus Multiple-Type Fleet: Effects of Fleet
		Structure on Air Cargo Spill Costs (Mohamed Badr, Embry-
	222	Riddle Aeronautical University)
	337	Regional Air Cargo Operations in the UK: Hub Feed or Essential Infrastructure for Globally Connected Regional Cities? (Christopher Cain, Northpoint Aviation)
	108	Inviting Cargo Hub and Airport Consortium (Mikio Takebayashi,
		Kobe University)
11:00-12:30	3-J	Airport Strategy & Management 3
Room: HG-14A37		Ian Douglas UNSW Sydney
	14	Abiotic Determinants of Airport Performance: Insights from a
		Global Survey (Elen-Paraskevi Paraschi, University of Patras/Hellenic Civil Aviation Authority; Antonios
		Georgopoulos, University of Patras; Andreas Papatheodorou,
		University of the Aegean)
	127	Measuring Attractiveness of Air Transport Networks in Self-
		Connecting Era (Slavica Dozic, University of Belgrade; Danica
	200	Babic, University of Belgrade) Analysis of Economic Effects of Arrival Duty-free Shops at
	200	Incheon International Airport (Yu-Jin Choi, Incheon
		International Airport Corporation; Seok Kim, Incheon
		International Airport Corporation)
	210	Research on the Prediction Model of Exit from Route Market
		by Applying Machine Learning (Kota Miyauchi, Tokyo Denki University; Kazuyuki Takada, Tokyo Denki University)







	359	Strategic Inflections: The Changing Fortunes of Hub Airports (Ian Douglas, UNSW)
11:00-12:30	3-K	Aviation & Economic Development 2
Room: HG-14A36	Chair: 25	Eric Pels VU Amsterdam European Air Traffic Management Fragmentation: A Cost- Effectiveness Based Airspace Assessment (Zvonimir Rezo, Croatian Academy of Sciences and Arts; Sanja Steiner, Croatian Academy of Sciences and Arts, Traffic Institute; Ružica Škurla Babić, University of Zagreb; Cristiana Piccioni, Sapienza University of Rome)
	238	The Impact of Blockchain on the Aviation System (Janik Jugl, University of St.Gallen; Andreas Wittmer, University of St. Gallen; Erik Linden, University of St. Gallen)
	297	Relationship among Product Volume, Variety and Value Addition Achieved by Integrating Mass Customisation and Lean Methods in Aviation (Govardhana Rao Banna, Singapore University of Social Sciences; Teik-Cheng Lim, Singapore University of Social Sciences; Kotireddy Rama Bhupal Reddy, Republic Polytechnic)
	331 197 -	Enhancing the Performance of Urban Logistics with New Air Transport Systems (Rosario Macario, CERIS, IST, Universidade de Lisboa and TPR/University of Antwerp; Jorge Miguel Reis Silva, Universidade de Lisboa/Universidade da Beira Interior; Vasco Reis, Universidade de Lisboa; Maria Emilia Baltazar, Universidade de Lisboa/Universidade da Beira Interior)
		Rosário Macário
12:30-14:00	Lunch	
	-	
14.00-15.30	Concu	rrent Session 4
14:00-15:30	4-A	Airline Strategy & Management 3
Room: Auditorium	Chair:	
	133	The Emergence of Low-cost Carrier in Long-Haul Markets and Its Impact on Incumbent Carriers: Implications to Competition on Transatlantic Routes (Jovana Kuljanin, University of Belgrade-FTTE; Milica Kalic, University of Belgrade-FTTE; Nemanja Mijovic, University of Belgrade-FTTE; Manuel Renold, Zurich University of Applied Sciences)
	150	The Impact of Formal and Informal Institutions on Airline Hedging Strategies: Uncertainty Avoidance vs Risk Management (Hassan Swidan, University of Sydney Business School: Rico Markert, University of Sydney)

School; Rico Merkert, University of Sydney)







225 231 98	Board Internationality and Corporate Performance: Theory and Evidence from the International Passenger Airline Sector (Erik Linden, University of St. Gallen; Maximilian Kinzel, University of St. Gallen; Andreas Wittmer, University of St. Gallen) Digital Dynamic Capabilities in the Airline Industry (Michael Weibel, Credit Suisse; Erik Linden, University of St. Gallen; Andreas Wittmer, University of St. Gallen) The New Basic Economy Fare in the Long-Haul, North-Atlantic Routes and Its Impact on Price Elasticity (Jesus Rubio, Cranfield University; Chikage Miyoshi, Ningbo Supply Chain Innovation Institute/MIT Network Scale; Keith Mason, Cranfield University; Robert Mayer, Cranfield University)
14:00-15:30 4-B	Marketing & Consumer Behavior in Air Transport 4
Room: HG-01A33 Cha	
62	Analysis of Online Booking Air Passengers' Behavior Characteristics based on Different Scenarios in China (Guihong Zhao, Civil Aviation University of China; Run-Qing Wang, Civil Aviation University of China)
87	A Border Effect in Airport Choice: Evidence from North-West Europe (Toon Zijlstra, Netherlands Institute for Transport Policy Analysis; George Gelauff, Netherlands Institute for Transport Policy Analysis)
173	The Satisfaction Experienced by Airport Passengers in Food- and-Beverage Retailers: A Segmentation Analysis based on Nationality, Gender and Place of Residence (Juan Carlos Martin, University of Las Palmas GC; Giacomo Del Chiappa, University of Sassari; Concepción Román, University of Las Palmas)
187	World Heritage Sites and Airports (Jocelyne Napoli, University of Toulouse; Ben Trapman, University of Toulouse)
276	Airport Positioning and Travellers' Shopping Experience (Yi Hsin Lin, National Taichung University of Science and Technology; Chrystal Zhang, Swinburne University of Technology)
14:00-15:30 4-C	Airline Operations 1
Room: HG-02A33 Cha 75 178	 Achim Czerny Hong Kong Polytechnic University A Maintenance Task Packaging and Scheduling Model Applicable to Aircraft Maintenance (Max Witteman, Delft University of Technology; Qichen Deng, Delft University of Technology; Bruno Santos, Delft University of Technology) Airport and Airline Seasonality: An Exploratory Analysis of Large US and European Airlines (Li Zou, Embry-Riddle Aeronautical University; Aisling Reynolds-Feighan, University College Dublin)







	206 270 269	Bootstrapping QAR Fuel Flow and Quantifying Aircraft Fuel Consumption Uncertainty: Towards a Dynamic Risk-informed Fuel Uplift Approach (Nga Yung Agnes Tang, UNSW, Sydney; Cheng-Lung Wu, UNSW, Sydney; David Tan, UNSW, Sydney) Optimizing the Tactical Plan of Airframe Maintenance in an Airline Network (Collin WH Wong, Hang Seng University of Hong Kong; Gang Chen, Sun Yat-sen University; Hoi Lam Ma, Hang Seng University of Hong Kong) Block-Time and Ground-Time Buffers in Airline Schedules (Achim I. Czerny, Hong Kong Polytechnic University; Jan K. Brueckner, University of California, Irvine; Alberto A. Gaggero, UNIPV)
14:00-15:30	4-D	Airline Economics & Performance 3
Room: HG-02A24	Chair: 7	Xiaowen Fu Hong Kong Polytechnic UniversityPrice and Marginal Cost Effects of On-time Performance:Evidence from the US Airline Industry (Javad Gorjidooz, Embry-Riddle Aeronautical University; Jules Yimga, Embry-RiddleAeronautical University)
	55	A Tale of Airline Competition: When FSCs Undercut LCCs Fares (Andrea G. Salanti, University of Bergamo; Paolo Malighetti, University of Bergamo; Stefano Paleari, University of Bergamo; Renato Redondi, University of Bergamo)
	119	In Search of the "Right Price" for Air Travel: Estimating Price- Demand Elasticity at the Flight-Date Level (David Tan, University of New South Wales; Suranga Perera, Qantas Airways)
	165	Low-cost Carrier Development and Competition Effect in the Chinese Market (Xiaowen Fu, Hong Kong Polytechnic University; Huaxin Zhang, Shanghai Maritime University; Chuanzhong Yin, Shanghai Maritime University; Kun Wang, University of International Business and Economics)
	222	Southwest Airlines' Post-Merger Performance: An Econometric Analysis (Tamilla Curtis, Embry-Riddle Aeronautical University; Wilfred S. Manuela Jr., Asian Institute of Management)
14:00-15:30	4-E	Air Transport Policy & Regulation 4
Room: HG-02A16	Chair: 33	Peter Morrell Cranfield University Use of Indicators System for Expanding an Airport Network – Brazilian National Air Transport Plan Case Study (Leandro Rodrigues Silva, Ministry of Transport, Ports and Civil Aviation; Rubem Oliveira De Paula, Rubem Oliveira; Marcelo Leme Vilela; Fabiana Todesco)
	132	Policy for Multiple-Airports Complementation in Hub-City (Ryohei Yamamoto, Kobe University/Waterfront Vitalization and Environment Research Foundation; Yushi Tsunoda, Kobe University)







	189 272 336	Air Transport as an Essential Service in a Deregulated Environment: The Case of Colombia (Luz Angela Giron, Universidad Nacional de Colombia; Mario Avellaneda Gonzalez, Universidad Nacional de Colombia; Edgar Jimenez Perez, Cranfield University) US Passenger Rights - Lessons Learnt from EU (Claudia Hipp, German University of Administrative Sciences Speyer) Empirical Evidence on Airline Internationalization Process: Focus on Host Countries' Institutions and Airlines' Property Rights Allocation (Eric F. Schneider de Almeida, University of São Paulo (USP); Humberto F. A. J. Bettini, University of Sao Paulo)
14:00-15:30	4-F	Airport Operations 1
Room: HG-01A32	Chair: 151	· · ·
	175	Investigation of Airport Terminal Resilience by Simulation Modelling (Nora Metzner, RWTH Aachen)
	280	The Capacity Impact of the Physical Separation of Domestic and International Passengers at Airport Terminals Applied to the European Example (Max Georg Schulze Schwienhorst, RWTH Aachen University)
	339	Development of Simulation Model for Ground Handling Service Equipment (Eun-ji Kim, Korea Aerospace University; Seok-jae Yun, Korea Aerospace University; Dong-yub Choi, Incheon International Airport Corporation; Joong-ha Shin, Incheon International Airport Corporation; Ho-jong Baik, Korea Aerospace University)
	190	Supporting the Diverse Needs of Special Assistance (or PRM) Passengers: A Survey of Current Practice at UK Airports (Lucy Budd, De Montfort University; Stephen Ison, De Montfort University; Andrew Timmis, Loughborough University)
14:00-15:30	4-G	Sustainability in Air Transport 4
Room: HG-02A36	Chair: 42	Milan Janic Delft University of Technology Analysis and Modelling Performance of an Air Transport Network Served by the Subsonic and Supersonic Commercial Aircraft (Milan Janic, Delft University of Technology)
	72	A Study on Airline Pilots' Behavior on Decision during Aircraft Maneuvers in Flight Operation, Reflecting Pilots' Awareness of Climate Change (Sihyun Yoo, Delft University of Technology; Kwang Eui Yoo, Korea Aerospace University; Seung Joon Jeon, Catholic Kwandong University; Se-Yeon Jung, Korea Transport Institute)







- 235 The Nudging Effect of Eco-Labels in Aviation: A Discrete-Choice-Model Experiment (Francesco Dorizzi, University of St. Gallen; Erik Linden, University of St. Gallen; Andreas Wittmer, University of St. Gallen)
- 263 The Effect of Providing Carbon Footprint Information on the Airline Ticket Purchase Decision: A Case Study in Japan Using the Doubly Randomized Preference Trial on the Randomized Conjoint Experiment (Yunichiro Yoshida, Hiroshima University; Volodymyr Bilotkach, Newcastle University; Miyu Sakamoto, Hiroshima University; Keisuke Kawata, University of Tokyo; Mirlan Atabekov, Hiroshima University)

14:00-15:30	4-H	Air Cargo 3
Room: HG-02A37	Chair: 3	Wouter Dewulf University of Antwerp Size Versus Efficiency: A Case Study of Flag Carrier Air Cargo Operations in Continental Europe (Bora Suavi Unsal, Embry- Riddle Aeronautical University)
	84	International Routes of Air Cargo and Exports: A Case Study of High Technology Product Exports in China (Kong Wing Clement Chow, Lingnan University; Ka Yiu Michael Fung, Chinese University of Hong Kong; Chi Lok Andrew Yuen, Chinese University of Hong Kong)
	131	The Significance of Air Cargo Revenues at the Selection Process of New Destinations for Passenger Transport - Nice-to-Have or Crucial Contribution? (Wouter Dewulf, University of Antwerp; Eddy Van de Voorde, University of Antwerp; Hilde Meersman, University of Antwerp)
	212	UPS and FedEx: Comparative Integrated Cargo Carrier Network Strategies in Japan and China (Mark Aroney, Embry-Riddle Aeronautical University)
	180	The Cargo Strategies of Airports in Europe: A Typology from Cargo Stars to Cargo Deserts (Thomas Van Asch, University of Antwerp; Wouter Dewulf, University of Antwerp; Franziska Kupfer, University of Antwerp; Hilde Meersman, University of Antwerp; Eddy Van de Voorde, University of Antwerp)
15:30-16:00	Coffee	Break
16.00-17.30	Concu	rrent Session 5
16:00-17:30	5-A	Airline Strategy & Management 4
Room: Auditorium	Chair: 167	Aisling Reynolds-Feighan University College Dublin The Role of Service Attributes for Airline Low-Cost Long-Haul Travellers (Wafi Al-Karaghouli, Brunel University London; Sarmad Alshawi, Brunel University London; Usman Hussain, Brunel University London)







	224 286 291	The Features and Impacts of Alliance Agreements by Low-Cost Airlines (Yuh-Horng Wen, Tamkang University) Is the A.I. Based Dynamic Pricing Still Profitable for the Airline Industry? (Kiyotaka Yuguchi, Sagami Women's University) Airlines and Almost-Mixed Bundling Pricing Strategy (Marco Alderighi, University of Aosta Valley; Christophe Feder, University of Aosta Valley; Elena Irina Ungureanu, University of Bergamo and Pavia)
16:00-17:30	5-B	Marketing & Consumer Behavior in Air Transport 5
Room: HG-01A33	Chair: 141	Characteristics of Potential User Groups of New Forms of Mobility Using the Example of Urban Air Mobility (Ulrike Kluge, Bauhaus Luftfahrt e. V.; Annika Paul, Bauhaus Luftfahrt e. V.; Kay O. Ploetner, Bauhaus Luftfahrt e. V.)
	239 316	Effect of Risk and Ambiguity Attitudes toward Road Travel Time on Airport Arrival Behaviors (Szu-Yu Tu, National Chiao Tung University; Yi-Shih Chung, National Chiao Tung University) The Impact of Passenger's Characteristics on Airport Non- Aeronautical Activities: An Empirical Study in the UK (Muneki
	354	Yokomi, Kindai University; Phill Wheat, University of Leeds) Factors Affecting Postponement, Rejection, and Opposition to Biometric Boarding Process (Cheong Kim, Sungkyunkwan University; Sungmi Lee, Korea Airports Corporation)
16:00-17:30	5-C	Airline Operations 2
Room: HG-02A33	Chair: 10	Hansjochen Ehmer German Aerospace Center (DLR) Dynamic Optimization for Airline Maintenance Operations (Felipe Delgado, Pontificia Universidad Catolica de Chile; Carlos Lagos, Pontificia Universidad Catolica de Chile; Mathias Klapp, Pontificia Universidad Catolica de Chile)
	172	Dynamic Design of Reserve Crew Pairings for Long-Haul Airline Crew (Lennart Scherp, Delft University of Technology; Richard Janssen; Bruno F. Santos, Delft University of Technology)
	192	What Drives Aircraft Ground Times? (Anne Lange, University of Luxembourg; Garoe Gonzalez Parra, Jeppesen GmbH, Boeing Global Services - Digital Aviation & Analytics Lab Frankfurt; Julian Sieling, Jeppesen GmbH, Boeing Global Services - Digital Aviation & Analytics Lab Frankfurt)
	221	A Study on the Vertical Alliance Effects (Yonghwa Park, Inha
	236	University; Wooyoung Hur, Inha University) Dynamic Evaluation of Flight Requests in Airline Crew Rostering (Maud Beulen, Delft University of Technology; Lennart Scherp, Delft University of Technology; Bruno F. Santos, Delft
		University of Technology)







Room: HG-02A24	Chair: 121	Sam Choo British Columbia Institute of Technology The Spatial Dimension of Competition among Airports at Worldwide Level: A Spatial Stochastic Frontier Analysis (Mario Intini, University of Bari; Angela Stefania Bergantino, University of Bari; Nicola Volta, Cranfield University)
	159	The Effects of Dominant Carriers' Efficiency on the Efficiency of the Hub Airports (Jongchul Kim, Inha University; Kichan Park, Inha University)
	177	Risk Assessment Impact in Project Financing for New Infrastructure Projects at Airports (Iliana Kalenderidou, Democritus University of Thrace; Dimitriou Dimitrios, Democritus University of Thrace; Sartzetaki Maria, Democritus University of Thrace)
	282	Airport Assets Valuation towards Business Performance Volatility (Maria Sartzetaki, Democritus University of Thrace; Dimitrios Dimitriou, Democritus University of Thrace)
	294	Evaluation of the Brazilian Airport Management: Challenges and Its Impact on Quality of Services (Rafael Cardoso Cunha, Federal University of Santa Catarina (UFSC); Paola Cemin da Silva, Federal University of Santa Catarina (LabTrans/UFSC); Amir Mattar Valente, Federal University of Santa Catarina (LabTrans/UFSC); John Weber Rocha, Civil Aviation Secretary of the Ministry of Infrastructure (SAC/MI); Fabiano Gonçalves de Carvalho, Civil Aviation Secretary of the Ministry of Infrastructure (SAC/MI))
16.00-17.30	5-F	Air Transport Demand 1

5-E	Air Transport Demand 1
Chair:	Katsuhiro Yamaguchi University of Tokyo
196	A Nested Logit Model for the Overall Air Passenger Trip
	(Sebastian Birolini, University of Bergamo; Cattaneo Mattia,
	University of Bergamo; Chiara Morlotti, University of Bergamo;
	Stefano Paleari, University of Bergamo)
199	The Development of Air Transportation Network Models on
	Pioneer Routes in Papua, Indonesia (Sakti Adji Adisasmita,
	Hasanuddin University; Yoniman Ronting, Hasanuddin
	University; Resti Octavia Palayukan, Hasanuddin University)
213	The Effects of Code-Sharing on Demand Changes in Air
	Transport: The Case of Turkish Airlines (Jaehong Park, Inha
	University; Tae Seung Kim, Inha University)
285	Second Best Congestion Pricing for Air Navigation Service
	Providers to Minimize En-Route Congestion in Europe (Thi Thuy
	An Vo, Vrije Universiteit Amsterdam; Christiaan Behrens, Vrije
	Universiteit Amsterdam; Eric Pels, Vrije Universiteit
	Amsterdam; Frank Fichert, Worms University of Applied
	Sciences; Erik Verhoef, Vrije Universiteit Amsterdam)
218	Strategic Route Development in a Multi-airport Metropolis of
	Kansai (Katsuhiro Yamaguchi, University of Tokyo; Kiyoshi
	Chair: 196 199 213







Yamasaki, Value Management Institute; Kazuki Iwakami, Value Management Institute; Atsushi Koike, Kobe University; Takashi Sekiyama, Toyo University)

16:00-17:30	5-F	Airport Operations 2
Room: HG-01A32	Chair: 160 153	Anne Graham University of Westminster The Flight Operations and Development Strategy of Guangzhou Baiyun International Airport in China (Di Qiu, Embry-Riddle Aeronautical University) Factors Affecting Car Parking Revenues: An Econometric Analysis of Large European Airports (Mark Friesen, QUINTA Consulting; Wilfred S. Manuela Jr., Asian Institute of Management)
	232 313	Development of a Simulation Model for Airport Stand Allocation (Seok Jin Cho, Korea Aerospace University) Influence of Airfield Operations Management on Flights Time
		and Cost Efficiency (Tatjana Krstic Simic, University of Belgrade; Obrad Babic, University of Belgrade)
	70	An Analysis of Service Quality at UK Airports (Anne Graham, University of Westminster; Nigel Dennis, University of Westminster)
16:00-17:30	5-G	Airline Network Development 2
Room: HG-02A36	Chair: 126	When the Engines Are Switched Off: The Impact of European Airline Bankruptcies on Market Concentration (Robert Mayer,
	174	Cranfield University; Pere Suau-Sanchez, Cranfield University) The Utility of Excessive Flight Frequencies from European Airline Hubs Considering their Impact on Departure and Schedule Delay (Felix Presto, Hamburg University of Technology; Volker Gollnick, Hamburg University of Technology; Klaus Luetjens, German Aerospace Center)
	264	Airport market-share determinants in Brazilian international flights (Fernando Seabra, Federal University of Santa Catarina (UFSC); Carla Acordi, UFSC/Labtrans; Rafaella Assis, UFSC/Labtrans; Leandro R. Silva, Ministry of Infrastructure, Brazilian Government; Amir M. Valente, UFSC)
	267	Market Share Evolution of Full-Service Network Carriers and Low-Cost Carriers: The Case of US Domestic Markets (Yi-Ching Lee, National Chiao Tung University; Yi-Shih Chung, National Chiao Tung University)
16:00-17:30	5-H	Aviation Safety & Security 2
Room: HG-02A37	Chair: 112	Renato Redondi University of Bergamo Pilot's Air Traffic Controller Communication Errors and Aviation Occurrences (Hui-Hua Yang, Chang Jung Christian University;







	314 346 352	Yu-Hern Chang, National Cheng Kung University; Yi-Hui Chou, National Cheng Kung University) Legitimacy Concerns of Air Taxi Operators: A Voluntary Reporting System Case (Ilker Under, Anadolu University) Exploration of Rationale behind Airline Passengers' Decision to Retain Possession of Personal Items during Aircraft Evacuation (Steven Leib, University of South Australia) Improving Aviation Safety through Mitigation of Human Error (Bijan Vasigh, Embry-Riddle Aeronautical University; Z. Ziarati, Azad University)
19:00-22:00	Confer	rence Dinner, offered by Royal Schiphol Group
	NH Gra	and Hotel Krasnapolsky
FRIDAY, 5 JULY		
9.00-10.30	Concu	rrent Session 6
9:00-10:30	6-A	Airport Strategy & Management 4
Room: HG-01A33	Chair: 140	Ian Douglas UNSW Sydney Airport's Catchment Area Size Definition: A Portuguese Case Study (Maria Baltazar, Universidade da Beira Interior; Jorge Silva, Universidade da Beira Interior)
	265	Analysis of Multi-Airport System Development in East Indonesia Region (Resti Octavia Palayukan, Hasanuddin University; Sakti Adji Adisasmita, Hasanuddin University; Muralia Hustim, Hasanuddin University)
	289	Modelling Ground Access Mode Choice Behavior for Adelaide Airport (Kai Xuan Lee, University of South Australia; Wen-Chun Tseng, University of South Australia)
	333	Sao Tome Aircraft Parking Area Redesigning: An International Infrastructure Regulation Study Case (Thyago Hermeto, Petróleo Brasileiro S.A.; Nathalia Hermeto, Petróleo Brasileiro S.A.; Pablo Hawson, Agave Arquitetura e Engenharia Ltda)
9:00-10:30	6-B	Airline Economics & Performance 4
Room: HG-02A33	65	Christian Bontemps ENAC/Toulouse School of Economics Air Connectivity Models and Passengers' Behavior (Renato Redondi, University of Bergamo; Sebastian Birolini, University of Bergamo; Chiara Morlotti, University of Bergamo; Stefano Paleari, University of Bergamo) The Pole of Curtamor Service Employees' Emotions in Airline
	155	The Role of Customer Service Employees' Emotions in Airline (Noriko Okabe, Yokohama National University)







	255 220	Towards a Measure of Airline Connectivity (Keith Mason, Cranfield University; William Morrison, Wilfrid Laurier University; Aina Sagrera Guibernau, Cranfield University) An Entry Game for Estimating the Market Structure of the Airline Industry (Christian Bontemps, ENAC/Toulouse School of Economics)
9:00-10:30	6-C	Airport Economics & Performance 2
Room: HG-02A24	Chair: 95	Peter Forsyth Monash University Impact of Airports' Environment in Productive Efficiency (Ane Elixabete Ripoll-Zarraga, Centre for Innovation in Transport (CENIT); Sonia Huderek-Glapska, Poznan University of Economics and Business (PUEB))
	101	The Impact of Low-cost and Charter Airlines on Airport Efficiency: Empirical Evidence from Greece (Annitsa Koumoutsidi, National Technical University of Athens; Ioanna Pagoni, National Technical University of Athens; Paraskevi Psaraki-Kalouptsidi, National Technical University of Athens)
	106	Hub Status of European Major Cities in International Aviation (Hidenobu Matsumoto, Kobe University; Koji Domae, Kansai Gaidai University)
	152	Is Total Factor Productivity at Major Airports Falling? (Peter John Forsyth, Monash University)
9:00-10:30	6-D	Air Transport Demand 2
Room: HG-02A16	Chair: 40	Sarah Wan Hong Kong Polytechnic University Are We Ready for the Future Airport? (Joao Rosao, Universidade Lusófona; Lucia de Fatima Piedade, Lusofona University)
	79	The Sensitivity Analysis of Endogenous Variables in Airport Connectivity Index (Min Feng, Civil Aviation University of China)
	288	Analysis of the Impacts of Airline Consolidations on Passengers' Welfare (Chieh-Yu Hsiao, National Chiao Tung University; Hui-
	125	Yu Chen, National Chiao Tung University) Network Development and Delays (Miguel Urdanoz, Toulouse Business School; Chantal Roucolle, ENAC, University of Toulouse; Tatiana Seregina, ENAC, University of Toulouse)
9:00-10:30	6-E	Airport Operations 3
Room: HG-01A32	Chair: 9	Peter Meincke German Aerospace Center (DLR) The Key Drivers for Klia2 Terminal Passengers' Overall Satisfaction (Nor Azlina Mohd Isa, Universiti Teknologi MARA; Hazelin Ghaus, Malaysia Airports; Norlida Abdul Hamid, Arshad Ayub Graduate Business School; Peck Leong Tan, Arshad Ayub Graduate Business School)
	329	Flight Delay Error Analysis for Amsterdam Schiphol Airport Using a Deep Neural Network (DNN) (Christopher Overtveld,
26		School of Business and Economics





	223 148 363	Delft University of Technology; Viranca Balsingh, Delft University of Technology; Robbie Lunenburg, Delft University of Technology) The Evaluation of Southeast Asia International Airports Competitiveness by a Two-Stage Approach (Minh Triet Huynh, Inha University; Hun-Koo Ha, Inha University) Identification of Threats of Power Outages for Airports and the Likelihood of Their Impact (Peter A. Meincke, German Aerospace Center (DLR); Andrei Popa, German Aerospace Center (DLR)) Online scheduling of flights arrival and departure (Amir Salehipour, University of Technology Sydney)
9:00-10:30	6-F	Airline Network Development 3
Room: HG-02A36	Chair: 195	Nigel Dennis University of Westminster Connecting Flights in LLCs' Business Model (Chiara Morlotti, University of Bergamo; Sebastian Birolini, University of Bergamo; Mattia Cattaneo, University of Bergamo; Renato Redondi, University of Bergamo)
	226	The Impact of Product Differentiation and Competition on Carries: Entry in a Liberalizing Transatlantic Air Transport Market (Shengrun Zhang, Nanjing University of Aeronautics and Astronautics; Mark Hansen, University of California, Berkeley; Frank Witlox, Department of Geography, Ghent University)
	252	Competitive, Operational and Spatial Characteristics of Evolving LHLC Networks in the Transatlantic Market (Joost Zuidberg, SEO Amsterdam Economics; Jaap de Wit, Pintail Aviation Economics; Guillaume Burghouwt, Schiphol Group)
	134	Crossing the Pond: Developments in North Atlantic Airline Operations (Nigel Dennis, University of Westminster; David Pitfield, University of Westminster)
9:00-10:30	6-G	Airline Strategy & Management 5
Room: HG-02A37	Chair: 15 120	Chunyan Yu Embry-Riddle Aeronautical University Mesh Network as a Competitive Advantage for European Low- Cost Carriers: An Alternative Topology to Hub-and-Spoke for Selling Online Connections (Richard Klophaus, Worms University of Applied Sciences; Rico Merkert, Institute of Transport & Logistics Studies; Oriol Lordan, Universitat Politecnicade Catalunya, Barcelona Tech) Hub Selection under Competition Using Graph Model for
	179	Conflict Resolution (Shawei He, Nanjing University of Aeronautics and Astronautics) Hub, Dominance or Double Margins? - Disentangling the Sources of Regional Airlines Pricing Power (Adams Steven,







	340	University of Maryland; Farbod Farhadi, Roger Williams University) Market Entry and Exit Behaviour of the Three Ultra-Low-Cost Airlines in the US (Chunyan Yu, Embry-Riddle Aeronautical University; Li Zou, Embry-Riddle Aeronautical University; Blaise P. Waguespack, Embry-Riddle Aeronautical University)
10:30-11:00	Coffee	Break
11.00-12.00	Concu	rrent Session 7
11.00 12.00	conca	
11:00-12:00	7-A	Airline Economics & Performance 5
Room: HG-02A33	Chair:	Hangjun Yang University of International Business and Economics
	76 332	Does One Model Fit Them All? Or How Airlines Tune Their Businesses Up in Face of Competition (Renan Oliveira, Aeronautics Institute of Technology; Alessandro V. M. Oliveira, Aeronautics Institute of Technology) Longitudinal Analysis of Perceived and Objective Airline Performance Quality (Brent Bowen, Embry-Riddle Aeronautical University Prescott; Erin Bowen, Embry-Riddle Aeronautical
	83	University Prescott; Javad Gorjidooz, Embry-Riddle Aeronautical University Prescott; Kaetlyn Blocker, Embry- Riddle Aeronautical University Prescott; Timothy Holt, Embry- Riddle Aeronautical University, Prescott) The Impact of High-Speed Rail Competition on Airlines' On- Time Performance (Hangjun Yang, University of International Business and Economics; Changmin Jiang, University of Manitoba; Kun Wang, University of International Business and Economics; Qiang Wang, University of International Business and Economics)
11:00-12:00	7-B	Airport Economics & Performance 3
Room: HG-02A24	Chair: 292	Joel Shon Tainan University of Technology Evolutionary Algorithm Based Capacity Optimization of a Baggage Sorting System Using a Modular Cellular Automaton (Manuel Renold, Zurich University; Simon Wacker, Zurich University; Claudio Gomez, Zurich University)
	309	Financial Metrics for Benchmarking U.S. Airports (Sunder Raghavan, Embry-Riddle Aeronautical University; Chunyan Yu, Embry-Riddle Aeronautical University)
	85	Catalytic Effects of Regional Airports: Impact Study of Lugano Airport (Rene Puls, University of St. Gallen; Andreas Wittmer, University of St. Gallen)

11:00-12:00 7-C Air Transport Demand 3







Room: HG-02A16	Chair: 77 208 219	Hanaoka Shinya Tokyo Institute of Technology Demand Leakage from a Local Small Airport to a Regional Main Airport (Yu Morimoto, Konan University) The Effect of Increasing Connectivity over European Tourism to Peru (Gutierrez Jesus, Universidad del Pacifico; Enzo Defilippi, Universidad del Pacifico) The Impact of LCC on Total Travel Volume: Observation in Japanese Domestic Market (Yuki Takamoto, Kanazawa University; Hiromichi Yamaguchi, Kanazawa University; Shoichiro Nakayama, Kanazawa University)
11:00-12:00 7-D	Airpor	t Operations 4
Room: HG-01A32	Chair: 8	Alexandre de Barros University of Calgary Simulation-based Analysis of Capacity of a Multi-Airport System: Mexico City Case Study (Miguel Mujica Mota, Amsterdam University of Applied Sciences; Alejandro Di Bernardi, Universidad Nacional de la Plata; Paolo Scala, Amsterdam University of Applied Sciences)
	257	Research on Design of Aircraft Push-back Combination Operation Mode and Performance Evaluation under Finger Pier Apron Configuration (Xiaowei Tang, Nanjing University of Aeronautics and Astronautics; Yeqing Liu, Nanjing University of Aeronautics and Astronautics; Sisi Ma, Nanjing University of Aeronautics and Astronautics)
	146	An Analytical Model for Open V-Shaped Runway System with Steeper and Staggered Approach Procedures (Marcela Coelho Lopes, University of Calgary; Carlos Muller, Aeronautics Institute of Technology; Alexandre de Barros, University of Calgary)
11:00-12:00	7-E	Airline Network Development 4
Room: HG-02A36	Chair: 256	Gianmaria Martini University of Bergamo Airports on the North Atlantic: The Impact of Alliances and Joint-Ventures (Frances Kremarik, University of Westminster; Nigel Dennis, University of Westminster; Anne Graham, University of Westminster)
	271	European Passenger Reliance on Indirect Travel (Valentijn van Spijker, SEO Amsterdam Economics; Christiaan Behrens, SEO Amsterdam Economics; Joost Zuidberg, SEO Amsterdam Economics)
	353	Characteristics and Impact Factors of Flight Bank of Network Airlines at Hub Airports (Yonglei Jiang, Dalian Maritime University; Zhongzhen Yang, Ningbo University)
11:00-12:00	7-F	Sustainability in Air Transport 5
Room: HG-02A37	Chair:	Keith Mason Cranfield University







	46	Environmental Benefits and Efficient Monitoring, Reporting and Verification (MRV) Options of Continuing with the EU-ETS for Aviation in a CORSIA-World (Sven Maertens, German Aerospace Center; Janina Scheelhaase, German Aerospace Center)
	171	How to Decarbonize Aviation in Europe? The Difficult Route of Sustainable Aviation Fuels (Inge Mayeres, Transport & Mobility Leuven; Stef Proost, KU Leuven; Eef Delhaye, Transport & Mobility Leuven)
	361	Roadmap to Decarbonising European Aviation (Carlos Calvo- Amber, T&E Laura Buffet, T&E Thomas Earl, T&E Lucy Gilliam, T&E Bill Hemmings, T&E Andrew Murphy, T&E Jori Sihvonen, T&E)
12:00-13:00	Closin	g session
Room: Auditorium		
13:00-18:00	Excurs	ions
13.00-18.00		Zaanse Schans
Meeting Place:		Registration Desk

13.00-18.00Canal CruiseMeeting Place:In front of Main Building VU

RECEPTION AND DINNER

RECEPTION

Date: Tuesday, 2 July Time: 19:00 - 20:30 Venue: Foyer, VU Amsterdam, De Boelelaan 1105 Offered by: Houston Airports



DINNER

Date: Thursday, 4 July Time: 20:00 – 23:00 Venue: Winter Garden, Hotel Krasnapolsky, Dam 9 Offered by: Royal Schiphol Group



