The 22nd ATRS World Conference
Seoul, Korea

Program Book

Date 2nd (Mon) ~ 5th (Thu) July 2018
Venue Grand InterContinental Seoul Parnas Hotel & COEX
The 22nd
ATRS World Conference
Seoul, Korea

2nd (Mon) ~ 5th (Thu) July 2018
Grand InterContinental Seoul Parnas Hotel & COEX

Hosted by

Supported by

Organized by
Welcome on behalf of the Local Organizing Committee

On behalf of the Korea Airports Corporation, Incheon International Airport Corporation, and Korea Aerospace University, I would like to sincerely welcome and thank all of you who visited Korea for this event.

The Air Transport Research Society World Conference, which marks its 22nd edition this year, plays a leading role in the development of the aviation industry as one of the most pivotal occasions where aviation academicians get together. It is a great honor for the Korea Transport Institute to host this conference in Korea.

The ATRS World Conference allows experts in the industry and the academia, as well as in research not only to present research papers on topics including air transport policy, airport development and operation, the competitiveness of the aviation industry, aviation safety and technology, and the environment but also to discuss significant issues in the sector.

During this conference, I hope that aviation experts around the world would share their various experiences and knowledge, as well as carry out comprehensive analyses and discussions on the present and future of the air transport sector.

Once again, I express my gratitude to all the joint hosts, organizers, and sponsors who have made this event possible. I also extend my sincere appreciation to all the aviation experts who are here with us.

I hope you experience a memorable and delightful time during this conference and your stay in Korea.

Jaehak Oh
President of the Korea Transport Institute

Welcome to Seoul from the Air Transport Research Society

It is with great pleasure that I welcome you to the 22nd Annual ATRS World Conference in the exciting city of Seoul. As you may be aware, this is the second ATRS World Conference to be held in Korea. In 2002, we were hosted in Jeju Island. The Jeju conference was a great success, so we are very pleased to return to Korea, this time at the invitation of KOTI, the Korea Transport Institute. Given that KOTI is one of the world’s leading transport research institutions, the ATRS is very honored to partner with KOTI in undertaking this conference.

I would like to thank KOTI President Jaehak Oh, the chair of this conference, Vice President Yeonmyung Kim, the Chair of the Organizing Committee, Chief Research Director Jinseo Park, the Chair of the Program Committee, and Chief Director Kihan Song and Professor Yeongheok Lee, the co-chairs of the Scientific Committee, for all of their support. We are truly fortunate to have such excellent local committees hosting our conference. In addition, I would like to thank the supporting and sponsoring organizations, including the Ministry of Land, Infrastructure and Transport, the Seoul Metropolitan Government, the Korea Airports Corporation and the Incheon International Airport Corporation.

We have a full slate of keynote sessions, panel sessions and paper sessions over the next couple of days, along with lots of time for networking and experiencing the city. I wish you a productive and enjoyable conference.

Martin Dresner
President, Air Transport Research Society
Dr. Oh obtained his PhD degree for transport studies at University College London in 1990. Since 1992, he has been working for The Korea Transport Institute (KOTI), taking a one-year leave of absence during 1995 as Lecturer at the Tokyo Institute of Technology. Dr. Oh was Vice President and Director of National Transport Strategy Planning at KOTI during 2011 to 2017. During the last 25 years, he has project managed more than 70 KOTI transport projects. During 2006 to 2011, he was the project manager of the national R&D, “Transport Connectivity and Transfer technology Development.” He has played a key role in innovating transport systems for green growth and formulating infrastructure policies for the Korean government. Since 2009, Dr. Oh has been the research and project manager of High-Speed Rail (KTX) economic development which aims to promote regional and urban development through KTX station area development. Dr. Oh served as the Secretary General for the 2001 WCTR Seoul Conference. At present, he is a SC Member of WCTR Society and an Editorial Board Member for the WCTR Journal of Transport Policy. Also, Dr. Oh is Chairperson of International Scientific Committee of EASTS (East-Asian Society of Transportation Studies).

Yeongwoo Kim
Vice President
The Korea Transport Institute

Myungwoon KIM
Vice President
Korea Airports Corporation

Jinseo Park
Chief Research Director
The Korea Transport Institute

Jeeoun Ha
General Manager
Corporate External Affairs Team, KAC

Myungwoon Kim is a Vice President of the Korea Transport Institute (KOTI). He worked as a Policy Analyst of the ITF (International Transport Forum) at the OECD organization in Paris, for two years, since September 2013. He received his PhD in Transportation Program of Civil Engineering at University of Maryland at College Park, USA in 1997 after receiving the Master of Science degree from the graduate school of Seoul National University. After the completion of his academic careers in U.S., he joined as research fellow in KOTI in 1997. In KOTI, he conducted more than 150 national projects and overseas projects in conjunction with various foreign governments. Most memorable projects were Incheon International Airport Master Plan for Year 2030, Joint project of Korea-EU Air Transport Liberalization policy and Mid and Long term National Airport System Planning project in Korea as well as Smart Airport Master Plan project. The most of case, the result of his research works reflected to national and international policies in technology and law perspectives.

Kihan Song
Director
Korea Airports Corporation

Research Fellow in the Department of Air Transport Policy and Technology in the Korea Transport Institute (KOTI). He graduated from Southern Illinois University with MPA (Masters of Public Administration) in Aviation Administration and B.S. in Aviation Technology, and received a Ph.D. in Air Transport at Korea Aerospace University. He graduated Summa cum laude in the College of Applied Science. He carried out many positions such as the Director of Aviation Information Analysis Center, the Director of Aviation Policy and Workforce Management. His main research areas are various Aviation Policy and Airport Planning. He carried out more than 100 projects such as ‘Aviation Policy Development’, ‘Air Demand Forecasting’, ‘Airline Management Strategy’, ‘Aviation Consumer Policy Development‘ and ‘Aviation Environment’, etc.

Executive Vice President Myungwoon Kim of Korea Airports Corporation (KAC) that manages, operates and constructs 14 airports in Korea. Mr. Kim has recently joined KAC in March this year and has been with the government of the Republic of Korea for the past 25 years serving in the Ministry of Land, Infrastructure and Transport (MOLIT) across various areas of profession including the aviation and land policy, urban planning and regional construction. His retirement position at MOLIT was the administrator of Daegu Regional Construction and Management Administration. He has graduated from Yonsei University with B.A. in Political Science and Diplomacy (1988) and Seoul National University in Graduate School of Public Administration (1995). He also holds M.A. in Urban Affairs & Public Policy of the University of Delaware (1999).

Executive Vice President Kwangsoo Lee of Incheon International Airport Corporation is an expert in airport operations and law. His career comprises of almost 30 years in the airport operations department as well as 7 years of working in the corporate planning department. He has joined Corporate External Affairs Team in 2016 to manage and enhance international relations of KAC. He is the first KAC employee to have been selected for the secondment program to work at the sister airport in Japan, Haneda International Airport for a year. His extensive acquaintance with overseas airports personnel as well as the International organizations such as the International Civil Aviation Organization (ICAO) and Airports Council International (ACI) add to his capacity in working to forge solid relationships in the aviation industry.

Yongkyu Kang
Director
Airport Research Institute, IAC

Dr. Song joined the Korea Transport Institute in 2009 and he is a Chief Director of the department of Aviation. He graduated from Seoul National University in 2000, granted a degree of PhD, School of Civil, Urban and Geosystem Engineering in 2007 and he worked as a post-doctoral researcher at UC Berkeley from 2008 to 2009. He achieved the Engineer Information Processing License in 1999 and the Professional Engineer Transportation License in 2008. Currently, he is conducting various researches related to air transport policies such as international and domestic airport’s master plan, airport noise policy, aviation safety IT system as well as any aviation policies from Open Skies to technical issues.

Keugsoon Lee
Executive Vice President
Incheon International Airport Corporation

Dr. Rin joined the Korea Transport Institute in 2009 and he is a Chief Director of the department of Aviation. He graduated from Seoul National University in 2000, granted a degree of PhD, School of Civil, Urban and Geosystem Engineering in 2007 and he worked as a post-doctoral researcher at UC Berkeley from 2008 to 2009. He achieved the Engineer Information Processing License in 1999 and the Professional Engineer Transportation License in 2008. Currently, he is conducting various researches related to air transport policies such as international and domestic airport’s master plan, airport noise policy, aviation safety IT system as well as any aviation policies from Open Skies to technical issues.
Special Guest Speech

Young Tae Kim is the Secretary-General of the International Transport Forum (ITF). He was elected by the transport ministers of ITF member countries at their annual summit on 1 June 2017 and took office in August 2017.

Prior to his election as ITF Secretary-General, Dr. Kim distinguished himself in the civil service of his native Korea, most recently serving as Director-General in the Ministry of Land, Infrastructure and Transport (MOIL). As Deputy Director-General from 2015, he was responsible for coordinating various transport policies including on autonomous vehicle, greenhouse gas reduction, urban transportation, Intelligent Transport Systems and road safety, among others.

After joining the MOIL in 1994 as Deputy Director for Urban Transport, Dr. Kim also held several Deputy Director and Director positions with responsibility for housing welfare, integrated city development and overseas infrastructure construction. He was seconded to the Prime Minister’s Commission on Administrative Reform in 1996 and the Presidential Committee on Social Inclusion in 2005-2007. From 2010 to 2014, Dr. Kim worked in Washington, D.C., as Counsellor for Construction, Transport and Maritime Affairs at the Korean Embassy.

Dr. Kim earned his Master’s degree in Public Policy from Seoul National University, Korea, and his Urban Studies from Paris University de Vincennes-Saint-Denis, France. He also received his Doctorate degree in Political Sociology and Public Policy from the Institute of Studies Politics (Sciences Po), Paris, France. Dr. Kim speaks fluent English, French and some Spanish, in addition to his native Korean.

Academic Keynote Speech

Jan K. Brueckner is Chancellor’s Professor of Economics at the University of California, Irvine. He received an A.B. from UC Berkeley in 1972 and a Ph.D. from Stanford University in 1976, and was a long-time faculty member at the University of Illinois at Urbana-Champaign before coming to UCI in 2005. He has published over 140 scholarly articles dealing with a variety of topics in applied microeconomics. His early work on the airline industry provided some of the first economic analysis of hub-and-spoke networks, demonstrating the efficiency gains from operation of such networks. He has also written on the economics of airlines alliances, showing both theoretically and empirically that alliances lead to lower fares for interline passengers. Other recent work deals with the economics of airport congestion, as well as airport noise and aviation emissions. Brueckner is also an expert in the fields of urban economics and public finance, and he served as editor of the Journal of Urban Economics, the leading scholarly journal in the field, from 1991 to 2007.

Brueckner is an academic affiliate at Compass-Lexecon, working on a variety of airline matters. He has consulted independently for American Airlines, United Airlines, Northwest Airlines, and the Star Alliance, as well as the US Department of Transportation and the World Bank.

Industry Keynote Speech

Benyamin Ismail joined AirAsia Malaysia in March 2010 and was officially appointed as the Chief Executive Officer for AirAsia X Berhad on 1 September 2015. Prior to that, he was the Group Head of Corporate Development, Implementation and Investor Relations, leading the group in corporate development and finding strategic opportunities to complement AirAsia’s airline and non-airline businesses through mergers and acquisitions, investments and special projects.

Before his tenure at AirAsia, Benyamin had an illustrious eight-year career in the Investment Banking industry with big players such as CIMB Investment Bank, Maybank Investment Bank and Affin Investment Bank, giving him a wide understanding of the overall financial industry.

Benyamin played a pivotal role in enhancing AirAsia’s growth to become one of the most attractive companies on the Bursa Stock Exchange in Malaysia in terms of Transparency, investor returns and Corporate Governance. Under his leadership, AirAsia became one of the most covered stocks by domestic and international brokerage houses and was awarded the Best Investor Relations Company four years in a row by Corporate Governance Asia.

Benyamin received the award of Best IR Professional in 2011 and 2012 by Bursa Malaysia Investor Relation Association. As well as the ‘Best Investor Relation Professional’ award four consecutive times. Benyamin holds a degree in Bachelor of Commerce (Banking & Finance) from Curtin University of Technology, Australia and a Master in Electronic Commerce from E-Biz Cours, University, Australia.
Program Overview

**July 2**  
Monday

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Venue / Grand InterContinental Seoul Parnas Hotel</th>
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<tbody>
<tr>
<td>9:00-11:00</td>
<td>ATRS Executive Committee Meeting</td>
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<td>(by invitation only)</td>
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<tr>
<td>11:00-12:30</td>
<td>ATRS Networking Committee Meeting</td>
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<tr>
<td>12:30-13:30</td>
<td>Lunch</td>
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<tr>
<td>13:00-19:30</td>
<td>Conference Registration</td>
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<td>13:30-15:00</td>
<td>Airport Benchmarking Task Force Meeting</td>
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<tr>
<td>13:30-17:00</td>
<td>Technical tour to Gimpo Airport</td>
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<tr>
<td>14:00-18:30</td>
<td>Ph.D. Student and Junior Faculty Workshop</td>
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<tr>
<td>18:30-20:30</td>
<td>Welcome Reception</td>
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**July 3**  
Tuesday

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<th>Time</th>
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<th>Venue / Grand InterContinental Seoul Parnas Hotel</th>
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<tbody>
<tr>
<td>9:00-9:15</td>
<td>Welcome Addresses</td>
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<tr>
<td></td>
<td>Martin Dressner</td>
<td>President of ATRS</td>
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<td>Jae Hak Oh</td>
<td>President of KOTI</td>
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<td>Jeongryeo Kim</td>
<td>Vice Minister for Transport, MOLIT</td>
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<tr>
<td>9:15-10:30</td>
<td>Keynote Speeches</td>
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<td></td>
<td>Special Guest Speech: Young Tae Kim</td>
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<td></td>
<td>Secretary-General of the International Transport Forum at the OECD</td>
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<td></td>
<td>Jan Brueckner</td>
<td>Professor of UC-Irvine</td>
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<td></td>
<td>Industry Keynote Speech: Benyamin Ismail</td>
<td>CEO of AirAsia X</td>
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<tr>
<td>10:30-10:50</td>
<td>Coffee Break</td>
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**July 3**  
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<th>Time</th>
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<tbody>
<tr>
<td>9:00-11:00</td>
<td>ATRS Global Airport Benchmarking Task Force Report and Excellence Award Presentation</td>
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<td>Chair: Jinseo Park</td>
<td>Chief Research Director, KOTI</td>
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<td>Presenter: Chunyong Wai</td>
<td>Coordinator, ATRS Global Airport Performance Benchmarking Task Force, and Embry Riddle Aeronautical University, USA</td>
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<td>11:50-12:50</td>
<td>Lunch</td>
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<td>Grand Ballroom (5F)</td>
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**July 3**  
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<tr>
<td>13:00-18:00</td>
<td>Conference Registration</td>
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**July 3**  
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<tbody>
<tr>
<td>14:00-15:10</td>
<td>Concurrent Keynote Panel Session</td>
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<td>Moderator: Yeonmyung Kim</td>
<td>Vice-President of KOTI</td>
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<td>Panelists: Andson Correia</td>
<td>Rector, IATA-Brazil</td>
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<td>Ian Douglas</td>
<td>Chair International Air Services Commission (Australia)</td>
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<td>Seongwoo Koh</td>
<td>Deputy Director of International Air Transport Division, MOLIT</td>
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<td>Yeongheok Lee</td>
<td>Professor of Korea Aerospace University</td>
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<td>Xie Li</td>
<td>Professor of CAC, China</td>
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<td>Katsushiro Yamaguchi</td>
<td>Visiting Researcher, University of Tokyo</td>
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**July 3**  
Tuesday

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<tbody>
<tr>
<td>15:10-15:40</td>
<td>Coffee Break</td>
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**July 3**  
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<tbody>
<tr>
<td>15:40-16:55</td>
<td>Concurrent Session I</td>
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<td>16:55-17:15</td>
<td>Break</td>
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<td>COEX Lobby (3F)</td>
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**July 3**  
Tuesday

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<tr>
<td>17:15-18:30</td>
<td>Concurrent Session II</td>
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**Program Overview**

**July 4 - Wednesday**

- **8:30-18:00**: Conference Registration
- **9:00-10:15**: Concurrent Session III
- **10:15-10:45**: Coffee Break
- **10:45-12:00**: Concurrent Session IV
- **12:00-14:00**: Lunch
  - Starfield Mall, COEX (B1)
- **14:00-15:15**: Concurrent Session V
- **15:15-15:30**: Break
- **15:30-16:45**: Concurrent Session VI
- **16:45-17:15**: Coffee Break
- **17:15-18:30**: Concurrent Session VII
- **19:00-21:00**: Gala dinner
  - Grand InterContinental Seoul Parnas Hotel Grand Ballroom (5F)

**July 5 - Thursday**

- **8:30-11:00**: Conference Registration
- **9:00-10:15**: Concurrent Session VIII
- **10:15-10:30**: Coffee Break
- **10:30-11:45**: Concurrent Session IX
- **11:45-12:00**: Break
- **11:50-12:50**: ATRS General Assembly
  - Room: COEX 300
- **12:50-19:00**: Optional excursions:
  - DMZ Tour
- **14:00-17:00**: Seoul City Tour

**Concurrent Sessions Overview**

**Tuesday, July 3**

- **15:40-16:55**: Concurrent Session I
  - Room: COEX 307A
  - Airline Strategy, Management & Operations 1 see p.15
- **16:00-17:15**: Concurrent Session II
  - Room: COEX 307B
  - Airport Strategy, Management & Operations 2 see p.18
- **19:00-21:00**: ATRS General Assembly
  - Room: COEX 300
  - ATRS General Assembly see p.23

**Wednesday, July 4**

- **09:00-10:15**: Concurrent Session III
  - Room: COEX 307A
  - Airline Strategy, Management & Operations 3 see p.21
- **10:30-11:45**: Concurrent Session IV
  - Room: COEX 307B
  - Mergers and Alliances in Air Transport see p.24
- **11:45-12:00**: Break
- **11:50-12:50**: ATRS General Assembly
  - Room: COEX 300
  - ATRS General Assembly see p.23
- **15:40-17:00**: ATRS Interest Group Meeting: African Air Transport (ATRS IG-Africa)
  - Room: COEX 301B
  - ATRS IG-Africa see p.26
## Concurrent Sessions Overview

### 15:30-16:45 Concurrent Session VI
- **Session 6-A** Room: COEX 307A Airline Strategy, Management & Operations 6 see p.29
- **Session 6-B** Room: COEX 307B Airport Strategy, Management & Operations 4 see p.29
- **Session 6-C** Room: COEX 307C Airport Economics 1 see p.30
- **Session 6-D** Room: COEX 308A Airport and Airline Performance 2 see p.30
- **Session 6-E** Room: COEX 308B Airport Case Studies 1 see p.30
- **Session 6-F** Room: COEX 308C Aviation Industry in APEC Economies see p.31
- **Session 6-G** Room: COEX 301B ATRS Interest Group Meeting: Strategic Management see p.31

### 17:15-18:30 Concurrent Session VII
- **Session 7-A** Room: COEX 307A Airline Economics see p.31
- **Session 7-B** Room: COEX 307B Airport Strategy, Management & Operations 5 see p.32
- **Session 7-C** Room: COEX 307C Airport Economics 2 see p.32
- **Session 7-D** Room: COEX 308A Airport and Airline Performance 3 see p.32
- **Session 7-E** Room: COEX 308B Marketing in Air Transport 1 see p.33
- **Session 7-F** Room: COEX 308C Airport Case Studies 2 see p.33
- **Session 7-G** Room: COEX 301B Aviation Case Studies see p.33

### Thursday, July 5

#### 9:00-10:15 Concurrent Session VIII
- **Session 8-A** Room: COEX 307A Aviation & Economic Development 1 see p.34
- **Session 8-B** Room: COEX 307B Environmental Issues in Air Transport 1 see p.34
- **Session 8-D** Room: COEX 307C Marketing in Air Transport 2 see p.35
- **Session 8-E** Room: COEX 308A Operations Research in Air Transport see p.35
- **Session 8-F** Room: COEX 308B Airline Network Development 2 see p.35
- **Session 8-G** Room: COEX 308C Air Cargo 1 see p.36

#### 10:30-11:45 Concurrent Session IX
- **Session 9-A** Room: COEX 307A Aviation & Economic Development 2 see p.36
- **Session 9-B** Room: COEX 307B Airport Strategy, Management & Operations 6 see p.36
- **Session 9-C** Room: COEX 307C Environmental Issues in Air Transport 2 see p.37
- **Session 9-E** Room: COEX 308A Marketing in Air Transport 3 see p.37
- **Session 9-F** Room: COEX 308B Airline Network Development 3 see p.37
- **Session 9-G** Room: COEX 308C Air Cargo 2 see p.38
The 22nd ATRS World Conference, Seoul, Korea

Conference Program

Monday, July 2
Venue / Grand InterContinental Seoul Parnas Hotel

9:00-11:00
ATRS Executive Committee Meeting  (by invitation only)
  Room: Iris (2F)

11:00-12:30
ATRS Networking Committee Meeting  (by invitation only)
  Room: Iris (2F)

12:30-13:30
Lunch  (by invitation only)
  Room: Iris (2F)

13:00-19:30
Conference Registration

13:30-15:00
Airport Benchmarking Task Force Meeting  (by invitation only)
  Room: Iris (2F)

13:30-17:00
Technical tour to Gimpo Airport  (registration required)
  Room: Chrysanthemum(2F)

14:00-18:30
Ph.D. Student and Junior Faculty Workshop  (registration required)
  Room: Orchid (2F)

18:30-20:30
Welcome Reception

Tuesday, July 3
Venue / Grand InterContinental Seoul Parnas Hotel & COEX

8:30-18:00
Conference Registration

9:00-9:15
Welcome Addresses
  Room: Grand Ballroom (SF)
  - Martin Dresner | President of ATRS
  - Jaehak Oh | President of KOTI
  - Jeongryeol Kim | Vice Minister for Transport, MOLIT

9:15-10:30
Keynote Speeches
  Special Guest Speech:
  - Young Tae Kim | Secretary-General of the International Transport Forum at the OECD
  Academic Keynote Speech:
  - Jan Brueckner | Professor of UC-Irvine
  Industry Keynote Speech:
  - Benyamin Ismail | CEO of AirAsia X
  - Sangdo Kim | Director General for Aviation Safety Policy, MOLIT
  - Mia Lee | Vice President of Safety & Security Division, KAC
  - Aisling Reynolds-Feighan | Professor of University College Dublin

10:30-10:50
Coffee Break
  Room: Grand Ballroom Lobby (SF)

10:50-11:50
Plenary Panel Session
  Moderator: Martin Dresner | President of ATRS
  Panelists:
  - Jungiane Ahn | Vice president of Administration & Innovation Division, IAC
  - Jan Brueckner | Professor of UC-Irvine
  - Benyamin Ismail | CEO of AirAsia
  - Sangdo Kim | Director General for Aviation Safety Policy, MOLIT
  - Mia Lee | Vice President of Safety & Security Division, KAC
  - Tae Hoon Oum | Invited Professor at NSICIC-MIT-Global China Program, and University of British Columbia, Canada
  - Aisling Reynolds-Feighan | Professor of University College Dublin

Tuesday, July 3
Venue / Grand InterContinental Seoul Parnas Hotel & COEX

11:50-12:50
ATRS Global Airport Benchmarking Task Force Report and Excellence Award Presentation
  Chair: Jinseo Park | Chief Research Director, KOTI
  Presenter: Chunyan Yu | Coordinator, ATRS Global Airport Performance Benchmarking Task Force, and Embry Riddle Aeronautical University, USA

12:50-14:00
Lunch
Room: Grand Ballroom (SF)

14:00-15:10
Concurrent Keynote Panel Session
  (1) Regulatory Air Policy
  Moderator: Yeonmyung Kim, Vice-President of KOTI
  Panelists:
  - Anderson Correia | Rector, ITA-Brazil
  - Ian Douglas | Chair, International Air Services Commission (Australia)
  - Seongwoo Koh | Deputy Director of International Air Transport Division, MOLIT
  - Yeongheok Lee | Professor of Korea Aerospace University
  - Xie Li | Professor of CAMIC, China
  - Katsuhiro Yamaguchi | Visiting Researcher, University of Tokyo

15:10-15:40
COEX Lobby (3F)
Coffee Break

15:40-16:55
Concurrent Session I (Tuesday, July 3, 15:40-16:55)

15:40-16:55
Room: COEX 307A  1-A
Airline Strategy, Management & Operations

15:40-16:55
Room: COEX 307A

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Exploring Airline Customer Satisfaction through Social Media Platform (Bo Lin, ICL; Julia Zhu, Air New Zealand; Kan Wai Hong Tsui, Massey University)

100
How Do Passengers React to Airlines’ Overbooking Strategies? Evidence from the US Airlines (Hideki Fukui, Eihime University; Koki Nagata, University of Maryland)

Note: panelists in alphabetical order by last names.
Conference Program

15:40-16:55  Room: COEX 307B
1-B Airport Strategy, Management & Operations 1
Chair: Balram Bheodari | Atlanta International Airport

- 109 Willingness to Accept for Flight Delay Compensation (Chieh-Hua Wen, Feng Chia University)
- 8 Will Low-cost Carriers also Disrupt Long-haul Services? (Andreas Knorr, German University of Administrative Sciences Speyer; Alexander Eisenkopf, Zeppelin Universität Friedrichshafen; Andreas Lueg-Arndt, Frankfurt University of Applied Sciences)

15:40-16:55  Room: COEX 307C
1-C Air Traffic Control 1
Chair: Jun-hyuk Kim | The Korea Transport Institute

- 159 The Outcomes of Airport Corporatisation, Commercialization, and Privatisation: A Systematic Review (Mohammed Chaouk, Cranfield University; Romano Pagliari, Cranfield University; Richard Moxon, Cranfield University)
- 67 A New Business-oriented Way of Segmenting Airports (Vasco Reis, University of Lisbon; Marta Gomes, University of Lisbon; Diogo Santos, University of Lisbon)
- 126 Passenger Satisfaction, Efficiency, Airport Delays and Bond Ratings: An Application of Network DEA to Evaluate the Performance of US Airports (Young-Tae Chang, Inha University; Chunyan Yu, Embry-Riddle Aeronautical University; Kijae Lee, Embry-Riddle Aeronautical University; Suhyung Lee, Inha University)
- 184 A Sensitivity Analysis on the Probability of Airborne Conflict in a Free Flight Concept (Larissa Costa, University of Calgary; Alexandre de Barros, University of Calgary; Atime Ronda, École nationale de l’aviation civile (ENAC))

15:40-16:55  Room: COEX 308A
1-D Air Transport Policy & Regulation 1
Chair: Yeonmyung Kim | The Korea Transport Institute

- 13 Carriers’ Entry Patterns in a Liberalizing Transatlantic Market under EU-US Open Skies Agreement (Shengrun Zhang, Nanjing University of Aeronautics and Astronautics; Ben Derudder, Ghent University; Kurt Fuellhart, Shippensburg University; Hailong Zheng, Nanjing University of Aeronautics and Astronautics; Frank Witlox, Ghent University & Nanjing University of Aeronautics and Astronautics)
- 99 A Pricing versus Slots Game: The Case of Substitute Air Services (Hao Lang, Hong Kong Polytechnic University; Achim I. Cenzy, Hong Kong Polytechnic University)
- 229 Has Light Handed Regulation of Australian Airports Really Worked? A Performance Study (Hans-Martin Niemeier, City University of Applied Sciences Bremen; Peter Forsyth, Monash University & Southern Cross University; Kok Fong See, Universiti Sains Malaysia)

15:40-16:55  Room: COEX 308B
1-E Aviation & Tourism 1
Chair: Katsuya Hihara | University of Tokyo

- 228 The Effect of Air Traffic Controllers’ Response to Abnormal Situations on Job Absorption and Satisfaction (Jong Duk Jeon, Korea Aerospace University; Sang Soo Kim, Korea Office of Civil Aviation, Ministry of Land, Infrastructure and Transportation; Kee Woong Kim, Korea Aerospace University)
- 169 Airline Efficiency Benefits of Reduced Oceanic Separations (Vitaly Guzha, Embry-Riddle Aeronautical University; Abbas Shaban, Embry-Riddle Aeronautical University; Kenny Martin, ISA Software)
- 192 The Effect of Flight Delay Compensation on Airline Passenger Satisfaction: Evidence from Peru (Enzo Defilippi, Universidad del Pacifico)
- 203 Analysis of Airport: Airline Relationship with a Third-Party Tourism Promotion (Katsuya Hihara, University of Tokyo)

15:40-16:55  Room: COEX 308C
1-F Aviation Safety & Security 1
Chair: Frank Fichert | University of Applied Sciences Worms

- 19 Impact of Aircraft Performance on the Design of Aircraft (Hao Lang, Hong Kong Polytechnic University; Achim I. Cenzy, Hong Kong Polytechnic University)
- 209 The Usability of Airport Security: Risk Analysis and Mitigation (John Pyrgies, SkyAngels)
- 287 Effect of Demand Shifting on Security Checkpoint Operation (Hyosin Park, North Carolina A&T State University; Paul Schonfeld, University of Maryland; Ali Haghani, University of Maryland)
Concurrent Session II (Tuesday, July 3, 17:15-18:30)

15:40-16:55
Room: COEX301A
1-G Human Resources Management in Air Transport 1

Chair: Stefan Baumeister | University of Jyvaskyla

7 Off-stage Heroes: The Antecedents and Consequences of Job Passion among Civil Aviation Maintenance Crew (Shun-Chuan Chen, Aletheia University)

41 Investigating the Effects of Career Management Competencies on Employability among Students of Department of Air Transportation Management (Ya-Ling Kao, National Cheng Kung University; Shu-Chuan Chen, Aletheia University)

58 A Study of Manpower Scheduling Optimization for Airport Station Operations (Pedro Jose Gudiel Pineda, National Taipei University of Technology)

252 Redesigning and Improving the Productivity of Airline Inflight Service Carts Assembly System (Banna Govardhana Rao, Republic Polytechnic; Tek-Cheung Lim, Singapore University of Social Sciences; Kotreddy Rama Bhupal Reddy, Republic Polytechnic)

15:40-16:55
Room: COEX301B
1-H Revenue Management

Chair: Benny Mantin | University of Luxembourg

120 Agile Revenue Management training – A New Holistic Simulation Based Approach “DOLFIN” (Jens Hujer, Heilbronn University of Applied Sciences)

155 A Study on the Dynamic Refund Fee Model of Air Tickets Based on Win-to-Win Mechanism (Jin-yi Deng, Civil Aviation University of China; Gui-Hong Zhao, Civil Aviation University of China)

320 Dynamic Price Competition in Long-Haul Air Markets (Miguel Urdanaz, Toulouse Business School; Chantal Roucolle, ENAC; Chiara Marlotti, University of Pavia)

50 How Does Price Volatility Influence Demand of Revenue Managed Goods? (Benny Mantin, University of Luxembourg; Chiara Marliotti, University of Pavia)

15:40-16:55
Room: COEX301C
1-H Human Resources Management in Air Transport 1

Chair: Stefan Baumeister | University of Jyvaskyla

7 Off-stage Heroes: The Antecedents and Consequences of Job Passion among Civil Aviation Maintenance Crew (Shun-Chuan Chen, Aletheia University)

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16:55-17:15 Break

Concurrent Session II (Tuesday, July 3, 17:15-18:30)

17:15-18:30
Room: COEX307A
2-A Airline Strategy, Management & Operations 2

Chair: Woohyun Cho | University of New Orleans

42 Airline Competition in Germany before and after the Air Berlin Bankruptcy (Tobias Grosche, Worms University of Applied Sciences; Richard Klophaus, Worms University of Applied Sciences; Adam Speredynski, Armadeus Germany GmbH)


239 Flight to Privatization of State-Owned Airlines - A Global Analysis and Empirical Study of Failures and Successes (Wail Mughni, Aviation Institute of Management)

14 The Impact of Predicted Quality and Failure Cost on Quality Assurance Behavior for Airline Departure Service (Woohyun Cho, University of New Orleans; Martin Dresner, University of Maryland; Dong-Jun Min, University of New Orleans)

17:15-18:30
Room: COEX307B
2-B Airport Strategy, Management & Operations 2

Chair: Richard Moxon | Cranfield University

20 Management Value and Preferences: Evidence from Airport Terminal Operators (Triant Flouris, Hellenic American University; Ayse Kucuk Yilmaz, Anadolu University; Nilal Tugce Bal, Anadolu University)

92 Feasibility Analyses of Electric Ground Transportation Buses at Sabiha Gokcen Airport (Bora Suavi Unsal, Embry-Riddle Aeronautical University)

135 The Development of Green Low-Cost Airport Terminal Design: Kuala Lumpur International Airport (KLIA 2), Malaysia Case Study (Rohafiz Sabar, Universiti Utara Malaysia; Nur Khairiel Anuar, Universiti Utara Malaysia)

366 A Study on Airport Operator’s Operational Strategy to Enhance Competitiveness of Airport through Increasing Efficiency (Dong-Ho Cho, Korea Airports Corporation)

17:15-18:30
Room: COEX307C
2-C Air Traffic Control 2

Chair: Sanghyun Kim | The Korea Transport Institute

48 Traffic Management for Drones Flying in the City (Busysairah Syd Ali, University of Malaya)

242 Economies of Scale in the European ANS Industry: A Multi-product Translog Cost Function Approach (Soen Buyele, University of Antwerp; Wouter Deswol, University of Antwerp; Ewy Ongheena, University of Antwerp; Hilde Meersman, University of Antwerp; Eddy Van de Voorde, University of Antwerp)

263 Coordinated Capacity Ordering and Trajectory Pricing for Better-Performing ATM (COCTA) - A Large Scale Case Study for the European Airspace (Frank Fichert, Worms University of Applied Sciences; Radosav Jovanovic, University of Belgrade; Nikola Ivanov, University of Belgrade; Goran Pavlovic, University of Belgrade; Obrad Babic, University of Belgrade; Obrad Babic, University of Belgrade; Arne Strauss, University of Warwick; Stefan Storha, University of Warwick)

273 Urban Airspace Structure Considering Dynamic Traffic Demands (Michael Schulz, German Aerospace Center (DLR); Stefan Kern, German Aerospace Center (DLR))
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<td>Room: COEX303A</td>
<td>Air Transport Policy &amp; Regulation 2</td>
<td>Sungyeoul Oh</td>
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<td>17:15-18:30</td>
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<td>Aviation &amp; Tourism 2</td>
<td>Chrystal Zhang</td>
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<td>17:15-18:30</td>
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<td>Aviation Safety &amp; Security 2</td>
<td>Anderson Ribeiro Correia</td>
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<td>17:15-18:30</td>
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<td>Human Resources Management in Air Transport 2</td>
<td>Sarah Wan</td>
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<td>17:15-18:30</td>
<td>Room: COEX308B</td>
<td>Airline Network Development 1</td>
<td>Christian Hofer</td>
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**Wednesday, July 4**

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<td>Terence Fan</td>
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<td>9:00-10:15</td>
<td>3-A</td>
<td>Airline Strategy, Management &amp; Operations 3</td>
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**Conference Program**

**Air Transport Policy & Regulation 2**

Chair: Sungyeoul Oh | The Korea Transport Institute

- 45 International Air Transportation Liberalization and Trade Creation in China (Xingwu Zheng, Civil Aviation University of China; Yi Zhang, Civil Aviation University of China)
- 208 Change in Korea Aviation Authority to High-Reliability Organization: Longitudinal Case Study (Ik Hyun Han, The Korea Transport Institute (KOTI))
- 301A Potential Benefits of Open Skies in South Asia (Darshi Piyathilake, Coventry University)
- 302 Potential Benefits of Open Skies in South Asia (Darshi Piyathilake, Coventry University)
- 303 Impact of China-ASEAN ATA on Hong Kong Hub Competitiveness (Chi Lok Andrew Yuen, Chinese University of Hong Kong; Kan Tsui, Massey University)

**Aviation & Tourism 2**

Chair: Chrystal Zhang | Swinburne University of Technology

- 149 Air Transport and Tourism Development in Thailand (Yahua Zhang, University of Southern Queensland)
- 151 Simultaneously Modelling the Tourism Participation and Expenditure Decisions for Air Travel Behavior (Chih-Wen Yang, National Taichung University of Science and Technology)
- 201 Measuring the Impact of Increased Air Arrivals on the Regional Dispersion of Tourism (Tay Koo, UNSW Sydney; Pong-Lung Lau, UNSW Sydney)
- 255 The Effect of Increase Passenger Service Charges (PSC) on Low Cost Travel (Wan Mazilina Wan Mohamed, Universiti Teknologi MARA)

**Aviation Safety & Security 2**

Chair: Anderson Ribeiro Correia | Technological Institute of Aeronautics

- 9 Statistical Dependence Analyses of Operational Flight Data Used for Landing Reconstruction Enhancement (Lucas Hoehndorf, Technical University of Munich; Thomas Nagler, Technical University of Munich; Phillip Koppitz, Technical University of Munich; Claudia Czado, Technical University of Munich; Florian Holzapfel, Technical University of Munich)
- 205 Proposing Improvements to Increase the Professionalism of the Aviation Security Personnel (Kang Seok Lee, Hanseo University; Sung Ah Kim, Hanseo University)
- 206 Perception of Safety Culture in the Aviation Industry: Case of USA and Korea (Seock-Jin Hong, University of North Texas)
- 39 Landing Accident Model for Medium and Large Sized Commercial Aircraft (Anderson Ribeiro Correia, Technological Institute of Aeronautics (ITA); Michelle Carvalho Carvalho Galvão Bandeira, Technological Institute of Aeronautics (ITA); Marcelo Ramos Martins, University of São Paulo)
- 106 Effects of Enterprise Bargaining and Agreement Clauses on Operating Cost of Airline Ground Crew Scheduling (Cheng-Lung Wu, UNSW Sydney; ShaoXuan Lim, UNSW Sydney)
- 188 Task Performance Repair by Emotional Labor of Flight Attendants (Noriko Okabe, Yokohama National University)
- 76 Skynet: An R package for Generating Air Passenger Networks for Urban Studies (Filipe Alberto Marques Teixeira, University of Ghent; Ben Derudder, University of Ghent)
- 101 Two Part Models Considering Connection and Frequency for Airport Route Development (Yu-Chen Wang, National Chiao Tung University; Jim-Tsai Wong, National Chiao Tung University)
- 113 Towards a Maturity Model for Big Data Analytics in Airline Network Planning (Maximilian Schosser, HHL Leipzig Graduate School of Management; Iris Hausladen, HHL Leipzig Graduate School of Management)
- 312 Assessing Airline Performance in the China-Europe market (Nan Dai, Institute for Aviation Research; Zheng Lei, Civil Aviation University of China; Yi Zhang, Civil Aviation University of China)
- 313 The Effect of Increase Passenger Service Charges (PSC) on Low Cost Travel (Wan Mazilina Wan Mohamed, Universiti Teknologi MARA)
- 314 Impact of New Airport on Airlines’ Strategies (Ozge Peksatici, Ozyegin University; Hatice de Fatima Piedade, Universidade Lusofona de Humanidades e Tecnologias; Manuel Jose Damasio, Universidade Lusofona de Humanidades e Tecnologias)
- 315 Two Part Models Considering Connection and Frequency for Airport Route Development (Yu-Chen Wang, National Chiao Tung University; Jim-Tsai Wong, National Chiao Tung University)
- 316 Towards a Maturity Model for Big Data Analytics in Airline Network Planning (Maximilian Schosser, HHL Leipzig Graduate School of Management; Iris Hausladen, HHL Leipzig Graduate School of Management)
- 317 Assessing Airline Performance in the China-Europe market (Nan Dai, Institute for Aviation Research; Zheng Lei, Civil Aviation University of China; Yi Zhang, Civil Aviation University of China)
### Conference Program

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9:00-10:15  **3-B**

**Aviation Finance**

Chair: Sunder Raghavan | Embry-Riddle Aeronautics University

- 102 Aircraft Value: Under Operating Cost Shocks (Bijan Vasigh, Embry-Riddle Aeronautical University; Stavros Ioannou, Embry-Riddle Aeronautical University)

- 298 Does Leasing Substitute or Complement Debt? Evidence from US Airlines (Hari Adhikari, Embry-Riddle Aeronautical University; Nilesh B. Sah, North Eastern Illinois University; Abbas M. Shaban, Embry-Riddle Aeronautical University)

- 16 Empirical Study of Different Approaches to Aircraft Valuation (Sunder Raghavan, Embry-Riddle Aeronautical University; Jayathi Raghavan, Embry-Riddle Aeronautical University)

- 128 From Full Freighters to Belly Cargo Aircraft: Stochastic Analysis of Alternatives for Freight in Schiphol Airport (Miguel Mujiga Mota, Amsterdam University of Applied Sciences; Abdel Makhloufi, Amsterdam University of Applied Sciences; Rodrigo Romero-Silva, Amsterdam University of Applied Sciences)

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9:00-10:15  **3-C**

**Air Traffic Control 3**

Chair: Jorge Silva | Universidade da Beira Interior

- 26 Input and Output Measurement in Air Navigation Service Provider Performance Benchmarking (Tatsufumi Yamada, National Institute of Technology and Science, Japan; Kiyoshi Muragi, Shizuoka University)

- 213 Conflict Resolution Policy for Small UAV Based on Satisficing Theory (Nam-woo Kim, Korea Advanced Institute of Science and Technology; Yoonjin Yoon, Korea Advanced Institute of Science and Technology)

- 340 Verification of Frangibility Design of Fixed FOD Detection System Using Structural Analysis (Nam-Hyun Cho, Incheon International Airport Corporation; Hyerin Lim, Incheon International Airport Corporation; Myeonghyeon Kim, Seoul National University)

- 116 Unmanned Aircraft and Airspace Interfaces: Insights and Challenges (Jorge Silva, Universidade da Beira Interior; Omar Netto, Universidade da Beira Interior)

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9:00-10:15  **3-D**

**Market Outlook and Future Development of Air Transport**

Chair: Hongchang Li | Beijing Jiaotong University

- 55 Current Experience of Corporate Air Passengers and Future Developments of Business Travel: An Explorative Study (Ulrike Kluge, Bauhaus Luftfahrt e.V.; Annika Paul, Bauhaus Luftfahrt e.V.; Viola Gissibl, Julius Maximilian University of Würzburg)

- 89 Scheduled Flight Durations over the Years (Terence PC Fan, Singapore Management University)

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9:00-10:15  **3-G**

**Air Transport Demand 1**

Chair: Kazuyuki Takada | Tokyo Denki University

- 212 A Study on Transportation Mode Choice for User with Infants in Case of Long Distance Travel (Takahiro Minami, Kanazawa University; Makoto Fuji, Kanazawa University; Junichi Takayama, Kanazawa University; Wataru Ura, Kanazawa University)

- 214 A Fine-Grained Demand Model for Air Taxis Over Europe (Xiaoqian Sun, Beihang University; Sebastian Wandelt, Beihang University; Lulu Hao, National Chiao Tung University; Carlos Alberto Tinoco, Embry-Riddle Aeronautical University)

- 305 Estimating the Number of Air Passengers Affected by Sudden Continual Flight Cancel by Utilizing Several Air Travel Survey Data (Kazuyuki Takada, Tokyo Denki University; Kota Miyauchi, Tokyo Denki University; Mai Kaneko, Tokyo Denki University)

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9:00-10:15  **3-H**

**ATRS Interest Group Session: African Air Transport - "Advancing Sub-Saharan African Air Transport Management Knowledge and Research"**

Chair: Eric Tchouamou Njoya | University of Huddersfield

- 62 Turbulences Towards Air Transport Liberalization: An Interdisciplinary Perspective on Sub-Saharan Africa and the ASEAN Region (Jonathan Steinbach, Zeppelin University; Raghavan Chandra, University of Huddersfield)

- 82 Effects of Enhanced Air Connectivity on the Kenyan Tourism Industry and Their Likely Welfare Implications (Eric Tchouamou Njoya, University of Huddersfield; Artur Semyatin, University of Huddersfield)

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**Conference Program**

**Panel discussion:**
Moderator: Eric Tchoouamou Njoya, University of Huddersfield

Panelists:
- David Warnock-Smith | Buckinghamshire New University
- Giannmaria Martini | University of Bergamo
- Jonathan Steinbach | Zeppelin University Friedrichshafen
- Artur Semeyutin | University of Huddersfield

**10:15-10:45**
COEX Lobby (SF)

**Coffee break**

**Concurrent Session IV (Wednesday, July 4, 10:45-12:00)**

**10:45-12:00**
Room: COEX 307A

**Chair:** Ryan Leick | Utah Valley University

**4-A Airline Strategy, Management & Operations 4**

- 288 Recurrent Neural Network based Aircraft Boarding Prediction (Stefan Reitmane, German Aerospace Center (DLR); Michael Schultz, German Aerospace Center (DLR))
- 290 Why Do Mega Full-Service Carriers Tend to Own Their Low-Cost Carriers? — Comparison between Air Transport Industry and Mobile Industry (Kiyotaka Yuguchi, Sagami Women’s University)
- 295 Developing Measures of Service Quality and Degree of Interconnectedness in Air Transport Networks (Branko Bubalo, University of Hamburg; Alberto A. Gaggero, University of Pavia)
- 307 Gamifying Airline Operations - One Metric to Rule Them All (Ryan Leick, Utah Valley University; Alec Robinson, G2 Secure; Chris Welty, AECOM)

**10:45-12:00**
Room: COEX 307B

**Chair:** Richard Klophaus | University of Applied Sciences Worms

**4-C Mergers and Alliances in Air Transport**

- 28 Consolidation and Firm Performance in the U.S. Airline Industry (Wilfred S. Manueta Jr., Asian Institute of Management; Dawna L. Rhoades, Embry-Riddle Aeronautical University; Tamilla Custis, Embry-Riddle Aeronautical University)
- 187 Demand and Consumer Welfare Analysis in the Chinese Airline Market (Wenliang Ma, University of International Business and Economics; Kun Wang, University of British Columbia; Qiang Wang, University of International Business and Economics; Hangjun Yang, University of International Business and Economics; Yahua Zhang, University of Southern Queensland)
- 196 Impact of Major Airlines’ M&A on Profitability and Marketability (Su-Hyung Lee, Inha University; Young-Tae Chang, Inha University; Jun Young Bae, Inha University)

**10:45-12:00**
Room: COEX 308A

**Chair:** Katsuhiro Yamaguchi | University of Tokyo

**4-D Air Transport Policy & Regulation 3**

- 47 Floodgate Effect of Liberalizing International Air Transport Market: The Case of China and Australia Market (Chryzstal Zhang, Swinburne University of Technology; Kareem Yarde; Yi Hsin Lin, Asia University)
- 146 Optimal Use-It-or-Lose-It Airport Slot Policies (Achim I. Czerny, Hong Kong Polytechnic University)
- 230 State Subsidies for Air Transport: The Case of Turkey (Christian Kreyeck, German Aerospace Centre (DLR); Anadolu i University; Mustafa Uzgor, Anadolu University)
- 23 Consequence of JAL’s Bankruptcy and Bailout: Has the Legacy Carriers in Japan Become More Productive? (Katsuhiro Yamaguchi, University of Tokyo)

**10:45-12:00**
Room: COEX 308B

**Chair:** Ali Haghani | University of Maryland

**4-E Low-Cost Carriers 1**

- 118 The Factors Affecting Passengers’ Choices for Low Cost Carriers (Yi Hsin Lin, Asia University; Chris Ryan, University of Waiikato; Chryzstal Zhang, Swinburne University of Technology; Yu Hsun Lai, Asia University; Li Wen Low, Asia University)
- 127 Low Cost Carrier Operations and its Impact on Tourism Flows in China (Chuntao Wu, Sichuan University; Li Juan, Sichuan University; Qiyue Jiang, Sichuan University; Tingying Yuan, Sichuan University)
- 264 Exploring the Rationale and Potential of LCCs’ Self-interlining (Renato Redondi, University of Bergamo; Sebastian Biroli, University of Bergamo; Mattia Cattaneo, University of Bergamo; Stefano Paezari, University of Bergamo)

**10:45-12:00**
Room: COEX 309B

**Chair:** Michael Williams | Embry-Riddle Aeronautical University

**4-F Intermodal and Air Travel Alternatives 1**

- 69 Managing the Multiple Airport System with High Speed Rail Network and the Big Market of inbound Travelers: Case of Tokyo Metropolitan Area (Mikio Takebayashi, Kobe University)
- 73 Impact of Network Configuration on High-Speed Rail Adoption and Development (Tiziana D’Alfonso, Sapienza University of Rome; Valentina Bracaglia, Autostrade per l’Italia S.P.A.; Alberto Nastasi, Sapienza University of Rome; D Sheng, Hong Kong Polytechnic University; Yulai Wan, Hong Kong Polytechnic University; Anming Zhang, University of British Columbia)
- 130 Air Cargo Market Structure, Intermodal Competition, and Prices: Evidence from Chinese Imports from Europe (Sara Maitoli, Newcastle University; Voldymyr Bilokach, Newcastle University; Bo Gao, Loughborough University; Wolfgang Grimmke, German Aerospace Centre (DLR))
- 280 Using Airport Infrastructure as a Hub for Connecting Regional Population Centers to High-traffic Tourist Destinations (Michael Williams, Embry-Riddle Aeronautical University)
Concurrent Session V (Wednesday, July 4, 14:00-15:15)

Room: COEX 308C

10:45-12:00

**Air Transport Demand 2**

Chair: Xiaowen Fu | University of Sydney

- 177 Passenger Collection and Distribution Demand of Beijing New International Airport for Substitute Transportation Modes (Li Xie, Civil Aviation Administration Institute of China; Xujuan Kuang, Civil Aviation Administration Institute of China)
- 277 International Airline Code Sharing and Air Traveler Behavior: Misconceptions vs Risk Aversion (Gerben de Jong, Vrije Universiteit Amsterdam)

Room: COEX 301B

10:45-12:00

**ATRS Interest Group Meeting: African Air Transport (ATRS IG-Africa)**

Chair: Eric Tchouamou Njoya | University of Huddersfield

12:00-14:00

**Lunch**

Concurrent Session V (Wednesday, July 4, 14:00-15:15)

Room: COEX 307A

14:00-15:15

**Airline Strategy, Management & Operations 5**

Chair: Myongjin Kim | University of Oklahoma

- 59 Understanding the Operating Landscape of the Global Airline Industry: A DEA Integrated Alternating Conditional Expectation Approach (Joyce M.W. Low, Singapore Management University; Kum Khiong Song, Singapore Management University)
- 115 Evaluating Disaggregate Input Efficiency of Airline Companies in the United States (Chia-Ning Chiu, National Ilan University)
- 162 Network Carriers Without Legacy - European LCCs at the Crossroads? (Richard Klophaus, Worms University of Applied Sciences)
- 318 The Value of Relational Adaptation in Outsourcing (Myongjin Kim, University of Oklahoma)

Room: COEX 307B

14:00-15:15

**Airport Strategy, Management & Operations 3**

Chair: Gianmario Martini | University of Bergamo

- 49 Development of Airport Information Systems, Analysis of Smart and Automated Airports (Eniko Nagy, Budapest University of Technology and Economics)

14:00-15:15

**Airport and Airline Performance 1**

Chair: Thomas Budd | Cranfield University

- 160 Operational Performance Forecasting and Evaluation: A Case of 20 Busiest Chinese Airports (Zhanwei Wang, Korea Aerospace University; Woon-Kyung Song, Korea Aerospace University; Hee-Young Hur, Korea Aerospace University; Gene Choi, Korea Aerospace University)
- 207 An Analysis of the Financial Efficiency of the World’s Major Hub Airports: A two-stage Bootstrapped DEA Approach (Jongshul Kim, Inha University; Tae Seung Kim, Inha University)
- 319 Airlines Performance Scorecard: A Long-term Fundamental Evaluation Framework (Hang Zou, Embry-Riddle Aeronautical University)

Room: COEX 307C

14:00-15:15

**Low-Cost Carriers 2**

Chair: Tobias Groche | University of Applied Sciences Worms

- 17 Low-cost Carriers and International Tourism Flows: Evidence from Italy (Alberto A. Gaggero, University of Pavia; Marco Alderighi, University of Aosta Valley & Bocconi University)
- 21 In-flight Merchandise Sale: An Operational Experience of a Thai Low-Cost Carrier (Narudh Chemakara, Bangkok University)
- 175 Effects of Advertising Endorser Credibility and Brand Fit on Brand Attitude and Purchase Intention for Low Cost Carriers (Yueh-Ling Hsu, Kainan University)
- 194 Effect of LCC Entries on FSC’s Airfare - An Empirical Analysis of the Domestic Market in Japan (Jun Mitsuishi, Kobe University; Masato Muraguchi, Kobe University)

Room: COEX 308B

14:00-15:15

**Intermodal and Air Travel Alternatives 2**

Chair: Augusto Voltes-Dorta | University of Edinburgh

- 218 Performance of Passenger Flow within Crowded Airports: A Systematic Literature Review and Meta-analysis (Alhussin Abudiyah, Cranfield University; Rich Moxon, Cranfield University; Romano Pagliari, Cranfield University)
- 232 Recognizing Departing Passengers’ Patterns at a Busy Airport (Deokbae An, Korea Aerospace University; Huiyang Kim, Korea Aerospace University; Hojung Baik, Korea Aerospace University)
- 129 Airport Cost Function, Output and Input Elasticities and Temporary and Persistent Efficiency: A Comparison between Italy and UK (Gianmaria Martini, University of Bergamo; Davide Scotti, University of Bergamo)
### Conference Program

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<td>14:00-15:15</td>
<td><strong>ATRS Interest Group Session: Strategic Management (ATRS IG-Strategy) - “Hot topics in Strategic Aviation Management: Multiple Perspectives from Science, Airports and Airlines”</strong></td>
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#### Concurrent Session VI (Wednesday, July 4, 15:30-16:45)

**Airline Strategy, Management & Operations 6**

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#### Concurrent Session VI (Wednesday, July 4, 15:30-16:45)

**Airline Strategy, Management & Operations 6**

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<td>15:30-16:45</td>
<td>93 A Study of Airline Passenger Complaints: An Assessment of the US Market (Thomas Budd, Cranfield University; Robert Mayer, Cranfield University)</td>
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<td>15:30-16:45</td>
<td>221 Estimation of Discretionary Fuel for Airline Operations (Hyoseok Chang, Korea Aerospace University; Kwang Eui Yoo, Korea Aerospace University; Hojong Baik, Korea Aerospace University)</td>
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<td>15:30-16:45</td>
<td>262 AHP Method Applied for Evaluating Passengers Preference: Passame of Toulouse to Commercial Aviation (Lucas Monnet, Cranfield University; Giovanni Micali, Aeronautics Institute of Technology; Rogelia de Arantes Gomes, Aeronautics Institute of Technology)</td>
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<td>15:30-16:45</td>
<td>269 The Significance of Air Cargo Revenues for the Selection Process of New Destinations for Passenger Transport - A Nice-to-Have or a Crucial Contribution? (Wouter Dewulf, University of Antwerp; Eddy Van de Voorde, University of Antwerp; Hilde Meersman, University of Antwerp)</td>
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#### Concurrent Session VI (Wednesday, July 4, 15:30-16:45)

**Airline Strategy, Management & Operations 6**

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#### Concurrent Session VI (Wednesday, July 4, 15:30-16:45)

**Airline Strategy, Management & Operations 6**

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<td>35 The Impact of Airport Terminal Wayfinding Design on Low-Cost Passengers at Kuala Lumpur International Airport 2 (KUL2) Terminal, Malaysia (Nur Khairil Anuar, Universiti Utara Malaysia; Rohafiz Sabar, Universiti Utara Malaysia)</td>
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<td>15:30-16:45</td>
<td>84 Innovation in Airport Passenger Taxi Management: A Case Study of Stockholm Arlanda Airport (Richard Moxon, Cranfield University)</td>
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<td>15:30-16:45</td>
<td>216 Willingness to Pay for Airport Parking in Adelaide Airport (Wen-Chun Tseng, University of South Australia)</td>
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<td>10 The Impact of Ownership Change on Competition and Pricing Behaviour at Edinburgh and Glasgow Airports (Anne Graham, University of Westminster; Romano Pagliari, Cranfield University)</td>
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**Panelists:**
- Andreas Wittmer | University of St. Gallen
- Ulrike Kluge | Bauhaus Luftfahrt
- Gerben de Jong | Vrije Universiteit Amsterdam
- Julian Rossy | University of St. Gallen
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<td>96 Comparative Analysis on the Production Structure of Asia-Pacific Airports</td>
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<td>(Young Hak Kim, Inha University; Tae Seung Kim, Inha University)</td>
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<td>111 Airport Charge Regulation for Non-aviation Sector: The Case of Japan</td>
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<td>(Katsumi Tanabe, Keio University)</td>
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<td>133 Granting Airports Concessions for Local Development: Evidence from Peru</td>
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<td>(Pedro Mateu, Universidad del Pacifico; Julio Aguirre, Universidad del Pacifico;</td>
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<td>Chrissie Pantoja, Universidad del Pacifico)</td>
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<td>202 Airport Efficiencies and Air Traffic Using DEA and Multilateral Resistance Terms</td>
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<td>Gravity Models (Aihyun Jo, Inha University; Young Tae Chang, Inha University;</td>
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<td>June Young Bae, Inha University)</td>
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<td>15:30-16:45</td>
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<td><strong>Chair:</strong> Ian Douglas</td>
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<td>18 Airline Schedule Padding and Consumer Choice Behavior</td>
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<td>(Javad Gorrjidooz, Embry-Riddle Aeronautical University-Prescott; Jules Ymga, Embry-Riddle Aeronautical University-Prescott)</td>
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<td>33 Calibration of Airline Cost Factors Depending on the Airline Business Model</td>
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<td>(Peter Bieslich, German Aerospace Center (DLR); Janine Kaminski, Hamburg University of Technology; Sascha Koppmann, Hamburg University of Technology; Klaus Luettgens, German Aerospace Center (DLR))</td>
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<td>63 Comparative Analysis of DEA and Financial Performance in Major Airlines</td>
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<td>(Kyeonghee Sung, Inha University; Tae Seung Kim, Inha University)</td>
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<td>193 The Impact of Airport Strategic Planning on Profit Performance (Ian Douglas,</td>
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<td>University of New South Wales)</td>
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<td>40 A Supply Side Categorization of Airports across Global Multiple Airport</td>
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<td>Cities and Regions (Kurt Fuellhart, Shippensburg University; Kevin DTyanoo,</td>
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<td>University of Melbourne)</td>
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<td>68 Investigating the Effect of Experience in an Airport on Pleasure, Satisfaction</td>
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<td>and Airport Image: A Case Study on Incheon International Airport (Young Kyung Ryu,</td>
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<td>Korea Aerospace University; Jin-Woo Park, Korea Aerospace University)</td>
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<td>97 Measuring and Managing Aircraft Turnaround Delay to Enhance Airfield Operation</td>
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<td>Efficiency for Taiwan Taoyuan International Airport (Suling Li, National Penghu</td>
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<td>University of Science and Technology)</td>
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<td>15:30-16:45</td>
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<td><strong>Aviation Industry in APEC Economies</strong></td>
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<td><strong>Chair:</strong> Andrew Yuen</td>
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<td>145 Bird Strike Risk Model and Verification at Taoyuan International Airport</td>
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<td>(Yuning Wang, National Cheng Kung University)</td>
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<td>15 The ASEAN Approach to Subsidies for Airlines (Jae Woon Lee, Chinese</td>
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<td>University of Hong Kong)</td>
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<td>31 International Liberalization and Domestic Market Competition - Analyzing the</td>
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<td>Spatial Entry Pattern of Low-cost Carriers in New Zealand (Wai Hong Kiong Tsui,</td>
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<td>Massey University; Kun Wang, University of British Columbia; Ian Bing Li, Nankai</td>
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<td>University; Zheng Lei, Swinburne University of Technology; Xiaowen Fu, University</td>
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<td>51 Measuring Multi-modal Connections and Connectivity Radiations of Transport</td>
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<td>Infrastructure: The Methodology and an Application to China (Anming Zhang,</td>
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<td>University of British Columbia)</td>
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**Concurrent Session VII (Wednesday, July 4, 17:15-18:30)**

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<td><strong>Chair:</strong> Aisling Reynolds-Feighan</td>
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<td>134 Airline Price Competition in Australia (Hangjun Yang, University of International Business and Economics; Wenliang Ma, University of International Business and Economics; Qiang Wang, University of International Business and Economics; Yahua Zhang, University of Southern Queensland)</td>
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<td>136 Does the Southwest Effect Still Matter? How Low-Cost Carriers Still Impact the</td>
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<td>US Aviation Market (Hyo-Soo Park, University of Maryland; Martin Drever, University of Maryland; Robert Windle, University of Maryland)</td>
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<td>284 A Model of Network Formation for Airlines (Christian Bontemps, ENAC &amp; Toulouse</td>
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<td>School of Economics; Kevin Remmy, Toulouse School of Economics)</td>
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<td>181 Seasonality in US Air Traffic Distributions: Impacts and Implications for</td>
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<td>Airlines and Communities (Aisling Reynolds-Feighan, University College Dublin)</td>
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<td>Air Transport and Regional Development: Evidence from Turkey</td>
<td>Eric Pels, VU University; Seynep Eburt, Dokuz Eylul University</td>
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<td>Concurrent Session VIII</td>
<td>The Evolution of Regional Air Transport Connectivity in Europe: A Comparison between Remote and Central Areas</td>
<td>Flavio Porta, University of Bergamo; Antonio Antunes, University of Coimbra</td>
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<td>8:30-11:00</td>
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<td>Concurrent Session VIII</td>
<td>One Belt One Road’ and Aviation: The Past, Present and Future Growth</td>
<td>Li Zou, University of Jordan; Saeid Mokhtari, Cranfield University</td>
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<td>Concurrent Session VIII</td>
<td>Identifying Ideal Aircraft Cabin Design for Short-Haul and Medium-Haul Flights in Japan</td>
<td>Berican Uyan, Cranfield University; Chikage Miyoshi, Ningbo Supply Chain Innovation Institute; Thomas Budd, Cranfield University; Romano Pagliari, Cranfield University</td>
<td>COEX</td>
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<td>A Study on Introducing Aircraft Noise Management Accreditation for Sustainable Development of Airports</td>
<td>Jina Yoo, Korea Airports Corporation</td>
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**Thursday, July 5**

**8:30-11:00**

**Conference Registration**

**Venue / COEX**

**19:00-21:00**

**Gala dinner**

Room: Grand InterContinental Seoul Parnass Hotel Grand Ballroom (SF)

**9:00-10:15**

**Aviation & Economic Development 1**

**Chair:** Shinya Hanaoka | Tokyo Institute of Technology

125 Identifying ideal aircraft cabin design for short-haul and medium-haul flights in Japan (Berican Uyan, Cranfield University; Chikage Miyoshi, Ningbo Supply Chain Innovation Institute; Thomas Budd, Cranfield University; Romano Pagliari, Cranfield University)

137 A study on introducing aircraft noise management accreditation for sustainable development of airports (Jina Yoo, Korea Airports Corporation)

121 Air transport and regional development: Evidence from Turkey (Eric Pels, VU University; Seynep Eburt, Dokuz Eylul University)

**9:00-10:15**

**Environmental Issues in Air Transport 1**

**Chair:** Janina Scheelhaase | German Aerospace Center

107 Estimating and forecasting for the social impact of aircraft emission at the airport (Cheol Hyun Lim, Inha University; Yong Hwa Park, Inha University)

189 Developing society’s attitudes toward the use of biofuel in aviation (Teguh Iman Maulana, Universitas Indonesia; Vitria Indiani, Universitas Indonesia; M. Dhaifa S. Nurmanto, Universitas Indonesia)

**9:00-10:15**

**Aviation & Economic Development 2**

**Chair:** Mikio Takebayashi | Kobe University

132 Airline choice in a market with two major players (Isaac LeLi Henderson, Massey University; Wei Hong Kan Tsui, Massey University; Thanh Ngo, Massey University; Andrew Gilbey, Massey University; Mark Avis, Massey University)

174 Segmenting online booking air passengers based on k-means clustering methods (Guishong Zhao, Civil Aviation University of China; Ruming Wang, Civil Aviation University of China)

220 The competition between aviation and new extension of high speed rail in Japan (Gen Hayamizu, Kanazawa University; Makoto Fujiu, Kanazawa University; Junichi Takayama, Kanazawa University)

282 Sports, sponsorship and spending - airline engagement and activation (Scott Ambrose, Embry-Riddle Aeronautical University; Blaise Waguespack, Embry-Riddle Aeronautical University)

**9:00-10:15**

**Operations Research in Air Transport**

**Chair:** Christian Bon temps | ENAC & Toulouse School of Economics

154 Aircraft acquisition under demand and cost uncertainties: A stochastic integer programming approach (Wei Ting Chen, University of New South Wales; Cheng-Lung Wu, University of New South Wales; David Tan, University of New South Wales)

164 Binary particle swarm optimization for solving the aircraft routing problem (Marius Raddle, German Aerospace Center (DLR); Eva Lang, zerog A Luftansa Systems Company)

178 Airline flight size optimization by modifying the sequential airline scheduling process (Michael Husemann, RWTH Aachen University; Raphael Schuetz, RWTH Aachen University; Eike Stumpf, RWTH Aachen University)

300 Using QAR data to quantify cruise fuel planning uncertainties due to prediction deviation (Aghes Tang, University of New South Wales; Cheng-Lung Wu, UNSW Sydney; David Tan, UNSW Sydney)

**9:00-10:15**

**Airline Network Development 2**

**Chair:** Nicola Volta | Cranfield University

119 The development of transfer passengers at key international airports (Sven Maertens, German Aerospace Center (DLR); Wolfgang Grimme, German Aerospace Center (DLR))

208 The development of air transportation network models on pioneer routes in Papua, Indonesia (Kabi Ariji Arisa Aroh, Marmaduke University; Yosman Rivansing, Marmaduke University; M. Marniawati, Marmaduke University; Rianti Utami Palupayan, Marmaduke University)

221 The evolution of regional air transport connectivity in Europe: A comparison between remote and central areas (Flavio Porta, University of Bergamo; Antonio Antunes, University of Coimbra)

301 One belt one road and aviation: the past, present and future growth (Li Zou, Embry-Riddle Aeronautical University; Chunyan Yu, Embry-Riddle Aeronautical University)

206 Bundling of airports in a region with trip-chain formation (Fangzhou Xu, Tokyo Institute of Technology; Shinya Hanaoka, Tokyo Institute of Technology; Masamitsu Onishi, Kyoto University)
Conference Program

9:00-10:15  8-G  Air Cargo 1
Chair: Jungkyu Choi | Dongseo University

- 36 European Regions and Air Routes’ Dismissal Risk (Nicola Volta, Cranfield University; Davide Scotti, University of Bergamo; Alessandro Manello, CNR-IRCE)

10:15-10:30  COEX Lobby (3F)
10:30-11:45  9-A  Aviation & Economic Development 2
Chair: Hans Martin Niemeier | University of Applied Sciences Bremen

- 61 Scope of Airport-oriented Development (AOD) for Indian airports: A Distribution Assessment Using Spatial Econometrics Models (Sunny Bansal, Indian Institute of Technology (IIT) Kharagpur; Joy Sen, Indian Institute of Technology (IIT) Kharagpur)

10:30-11:45  9-B  Air Traffic Strategy, Management & Operations 6
Chair: Gunyoung Lee | Korea National University of Transportation

- 22 Introducing Competition in Terminal Navigation Services in Australia and New Zealand (Margaret Arblaster, Monash University)

10:30-11:45  9-C  Environmental Issues in Air Transport 2
Chair: Wolfgang Grimme | German Aerospace Center

- 315 Airport Development and Capacity Deficiencies in Thailand: National Policy Implications (Navatarn Kongsanum, Kasetsart University)

10:30-11:45  9-E  Marketing in Air Transport 3
Chair: Seockjin Hong | University of North Texas

- 46 Airline E-commerce User Experience Experiment: An Investigation of Thai LCCs passengers’ Purchasing Behaviour among Different Online Platforms (Sarakard Pasupa, Silpakorn University; Narudh Cheeramakara, Bangkok University)

- 65 Optimal Pricing Rule for One-way Airline Tickets: Empirical Evidences (Elena Irina Ungureanu, University of Aosta Valley; Marco Alderighi, University of Aosta Valley; Christophe Feder, University of Aosta Valley)

- 103 Determining Factors of Air Passengers’ Choice of Transfer Airports: The Southeast Asia - North America Market (Jong Hae Choi, University of British Columbia & Incheon International Airport Corporation; Kun Wang, University of British Columbia; Wenyi Xia, University of British Columbia; Anming Zhang, University of British Columbia)

- 291 Organisational Trust: An Application to the Air Transport Sector (David Warnock-Smith, Buckinghamshire New University; Derek Cameron, Huddersfield University; John Frankie O’Connell, University of Surrey)

10:30-11:45  9-F  Airline Network Development 3
Chair: Martin Drexler | University of Maryland

- 66 Expansion of International Airline Networks: An Application to US Carries (Tatiana Seregina, ENAC-TBS; Chantal Roucolle, ENAC; Miguel Urdanoz, TBS)

- 183 Analysis of Flight Delay Propagation and Delay Cause in Japanese Domestic Air Transport Network (Terumitsu Hirata, Ibaraki University)

- 259 Airlines’ Entry Decisions under Schedule Operational Constraints (Sebastian Birolini, University of Bergamo & University of Pavia; Chiara Morlotti, University of Bergamo; Mattia Cattaneo, University of Bergamo; Paolo Malghetti, University of Bergamo; Renato Redondi, University of Bergamo)
Conference Program

10:30-11:45  Air Cargo 2
Room: COEX 308C

Chair: Li Zou | Embry-Riddle Aeronautical University

9-G
Competitive Profiling to Evaluate Airline Hub Connectivity (Zeliha Akca, Turkish Airlines)

10:30-11:45
Room: COEX 308C

Applying TOE Model to Examine the Adopting Intention of Cloud Information System for the Air Freight Forwarder (Ching-Cheng Chao, National Kaohsiung Marine University; Chien-Yu Chen, National Kaohsiung Marine University; Meng-Xiu Wu, National Kaohsiung Marine University)


171 Unmanned Cargo Operations at Airports: Influencing Factors, Potential Use Cases and First Possibilities for Implementation (Stefanie Helm, German Aerospace Center (DLR); Annette Temme, German Aerospace Center (DLR); Ingrid Gerdes, German Aerospace Center (DLR))

11:45-11:50  Break

11:50-12:50  ATRS General Assembly
Room: COEX 300

Optional excursions:

12:50-19:00  DMZ Tour
14:00-17:00  Seoul City Tour
1. Aviation Training Center
Korea Airports Corporation Aviation Training Center was established in 2017 to further develop aviation industry and train pilots to cope with the future demand. KAC is provocatively pursuing to implement Jet Transition Course that has yet to be facilitated in Korea on the back of governmental policy support and collaboration with CAE, a global training institution. This facility is equipped with state-of-the-art training equipments such as FFSes (Full Flight Simulators): CAE 7000XR, Aircraft: CESSNA CITATION M2.

2. Seoul-Gimpo Business Aviation Center (SGBAC)
Seoul-Gimpo Business Aviation Center made its debut in 2016 as the nation’s first dedicated business aviation services facilities. The facilities are comprised of an executive terminal and 12,490 m² of hangar that can accommodate up to eight G550 or Global 6000 simultaneously. SGBAC is committed to providing our customers with safe services of high quality for international corporate jets to get to and from Korea.

* The tour also includes visit to Gimpo Airport domestic terminal and vicinity development such as Gimpo Skycity Project.
1. Kyeongbokgung Palace

Kyeongbokgung Palace is one of the oldest of the five places in Seoul. It is such a great and magnificent building as a representative of Joseon Dynasty. It shows off the beauty of its construction. Through this, it can be a representative tourism spot for foreigners to understand the tradition and history of Korea. This tour course takes around one and a half hours; you will see remarkable pavilions like Kyunghoiru and Hyangwonjung, and beautiful/classy wooden and stone structures as Kyungcheonsaji 10-story tower, you also will see Kyotaejeon and Kangnyungjun places where you can experience the life of noble people with a guide. Gyungbok-gung Palace is the starting point of 500 years of history in Joseon Dynasty. You will defiantly enjoy the stroll around the place feeling the quiet and peaceful mood. It can be a representative tourism spot for foreigners to understand the tradition and history of Korea. If you want to know the history of Korea properly, you should visit this place.

2. N Seoul Tower

N Seoul Tower, which is on top of the Namsan Mountain is 479.7 meter high. It is the 2nd tallest tower of the world. When you go up to the observatory of this place, you will see the fabulous panorama of Seoul. Also, N Seoul tower has a beautiful night view, you will see the beautiful scenery at the observatory as well as the outside of the tower in this representative landmark of Seoul. In the N Seoul tower, concert, love festival, love locker event, and other various events take place throughout 365 days a year, you will not be bored regardless of when you visit here.

1. Dora Observatory

Dora Observatory, or OP Dora is the closest observation post to North Korea. From the observation platform, North Korean scenery is visible, and so are the outskirts of Gaeseong City, the 3rd largest city of North Korea. Especially, you can view the Gaeseong Industrial Complex operated by both Koreas. If you use the binocular, a statute of Kim Il-sung can be found near the Gaeseong City.

2. DMZ Theater and Exhibition Hall

It’s a unique museum within the civilian control line. The museum, on which the nation and provinces had spent 44.5 billion Korean won, officially opened on 08, 14, 2009. DMZ Showroom displays leaflets used during the 6.25 Korean Civil War, military letters, bayonets, empty cartridges, pottery found in DMZ, taxidermied birds and etc.

3. The 3rd Infiltration Tunnel

Since 1974, South Army has discovered four tunnels crossing the MDL. The tunnels are believed to have been planned as a military invasion or infiltration route. Each tunnel is large enough to enable the passage of thirty thousand soldiers in one hour. The 3rd tunnel discovered in 1978 penetrates into South Korea by 435 meters beyond the ceasefire line.

4. Dorasan Station

A sign in the station reads, “Not the last station from the South, But the first station toward the North.” For now, it is the northernmost station of South Korea which is only 700m, or a half mile away from the southern boundary of DMZ. The milestones of Dorasan Station (205km to Pyeongyang, 56km to Seoul) imply the reality of the division between two Koreas and the hope of a future.
ATRS Executive Committee and Corporate Members

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Transport Policies Designed to Improve People’s Quality of Life

For the past 30 years, KOTI has played a leading role in the timely construction and efficient operation of Korea's transport infrastructure. KOTI has also contributed to national economic development and people’s higher quality of life through innovation of the nation’s transport and policies.

Transport is now required to play an even more vital role in enhancing quality of life and boosting economic growth. Safer, faster and more affordable transport has become a public service for which the government needs to take responsibility. Furthermore, the “4th industrial revolution,” based on super-connected and super-intelligent digital technology, comes with new challenges and opportunities for transport, logistics and aviation systems.

KOTI will be a leader in shaping and coordinating human-centric and safe transport systems, fast and comfortable commuting, innovating the transport industry through field-oriented and data-driven policy researches. KOTI also aims to become a world-renowned excellent research center in the areas of big data technology, autonomous vehicles, unmanned aerial vehicles, logistics 4.0, and smart mobility.

We will make combined efforts to address current issues in transport and to contribute to the development of new and efficient transport systems.

Thank you.

Korea Airports Corporation (KAC) is a representative public corporation in the Republic of Korea that contributes to the national economic development by providing seamless air transportation services with high efficiencies in construction, management and operation of 14 airports nationwide. We make ceaseless efforts to fulfill both corporate social responsibility and stakeholder’s satisfaction by establishing people-centered strategic goals.

The individual and corporate efforts made by KAC employees and executives are focused on enhancing the safety & convenience and efficiency of our airports. As a result, Daegu and Cheongju airport saw the first surplus, reaching a total passenger traffic of 81.25 million, for the first time, which is a 3.5% increase year on year. Moreover, KAC has been awarded the Airport Service Quality (ASQ) Award for six consecutive years as the best airport in the world and was recognized for the efficient airport operation.

Korea is welcoming a large number of tourists from all over the world and the number of Koreans traveling overseas has increased by 17.9% year on year, reaching approximately 53 million. To meet increasing demand for air transportation, KAC’s new airport construction is underway at Gimhae, Jeju, Uleung and Heuksan. Through this, KAC is creating quality jobs and increasing public access to air transportation as to contribute to the balanced national development.

Our global competitiveness in aviation industry is secured by the 4th Industrial Revolution technologies, commitment to aviation research, and fostering experts in comprehensive airport operation including pilot training.

As a public enterprise, our commitment to corporate social responsibility in creating social value is translated into action in social welfare, education, culture and the environment at home and abroad. We have aligned our overseas business with the government’s Official Development Assistance (ODA) program to support developing countries, which is also in line with the “No Country Left Behind” campaign led by International Civil Aviation Organization (ICAO) to build and expand aviation infrastructure and capacity of emerging economies.

KAC’s vision “Connecting the World, Inspiring the Future” is aimed to seek both corporate interest and public value, while enhancing passenger experience at our 14 airports.
Incheon International Airport, which connects the Republic of Korea with the world, has finished the long journey of phase 3 construction and now it makes a new leap forward into the future with the grand opening of Terminal 2, boasting more convenient facilities and service.

With the goal of being the hub airport of Northeast Asia, Incheon International Airport has shown steady growth and became a No. 7 airport in the world in terms of international passengers and No. 3 in international cargo. Amid the rapid growth, more than 50,000 airport family members put safety and comfort of passengers before anything else, and we achieve the honor of being the best service airport in the world for 12 consecutive years.

Instead of dwelling in our past glory, Incheon Airport takes on a new challenge for the future. With eye-catching services and facilities, we will draw more passengers, expand our facilities in preparation for more than 100 million passenger demand, and become the state-of-the-art smart airport with futuristic technologies. With the focus on high-value adding logistics, we will reinforce the role of logistics hub and rise to the center of aviation, logistics, tourism and culture of Northeast Asia by completing the Air City project.

We will take a step further to enter the global market with Incheon Airport’s world-class service and pioneer the new export market of airport operating system.

We ask for your continued support and encouragement till Incheon International Airport becomes a true hub of the world beyond Northeast Asia.

Korea Aerospace University (KAU) was established in 1952 as a national university.

Over sixty-five years, it has fostered highly skilled experts for the aerospace industry and has played a leading role in conducting research.

KAU is the one and only university in Korea that specializes in aerospace education and research. It is a nationally and internationally recognized university offering aerospace programs, such as flight operations, air traffic control, aircraft maintenance, airport management, air transport and logistics, and space law. Advanced engineering programs are also prominent, providing cutting-edge knowledge in design and manufacturing of aircraft and even outer-space structures.

KAU professors publish their research results in leading international journals, particularly in the specialized fields of unmanned aerial vehicles, space launch vehicles, avionics, air traffic control, and aircraft authentication. The university plans to enhance its status as a leader in aerospace technology by cooperating with the aviation industry.

To continue to develop global leaders in aviation and aerospace, Korea Aerospace University will proudly reach out from Korea to the rest of the world, from the present generation to the next, and beyond.
Korea Transportation Safety Authority is a professional organization managing and researching for the safety of traffic on the roads, rails, and aviation. We concentrate all our capability for our citizen to make their lives be safe and comfy, and to protect their lives from traffic accident. We also try our best to keep our traffic safety level with top 10 ranked economic scale in the world.

We are trying to reduce accident by car with preventive activity such as development and supply for high tech equipment, and managing for digital record of run. We do our best to manage safety for next generation vehicle such as electric and hydrogen powered can be safe for citizen through safety evaluation, defect investigation in manufacturing, and inspection of safety.

Also we are preparing future traffic safety that gives innovation to citizen’s lives such as technology securement for self-driving cars with K-city which is the experimental city in fourth industrial revolution, drone safety management backed up vitalization on drone industry, and traffic big data analysis.

We, Korea Transportation Safety Authority try our best to realize our value ‘Human First’ in traffic safety. We will always be a strong protector for our citizen next to them.

COEX City Airport(CALT), since its opening in 1985 at Samseong-dong in Gangnam-gu, the center of trade and culture in South Korea, provides one-stop departure services from check-in by airlines, immigrations, and exclusive gates for passengers of the city airport, as well as non-stop limousine services to the Incheon Airport.

COEX City Airport is an affiliate of the Korea International Trade Association (KITA), a public business with more than 70,000 member companies, and has accumulated a wide range of experience, capabilities, and know-how in running city airports. If you have an interest in partnership in city airport business in cities around the world, please contact us.

CALT is also a logistics company that supports promotion of national trade in South Korea. It has six large logistics centers at major free trade zones in the Incheon Airport, the Pusan New Port and Pyeongtaek Port. As an integrated logistics company, CALT provides comprehensive logistics processes including consolidation, dismantling, sorting, storage, stock control, warehouse management and so etc.

Recently CALT launched its container rental business and is also planning to expand its business sectors to those that need special requirements and infrastructures, such as dangerous goods, perishable stuffs and reverse logistics by using domestic and global partner networks.

“We support the dreams of young people to help them pioneer a new era with their creative talent and passion.”

Since Dongseo University opened in 1992, it has been growing rapidly based on the three strategies of specialization, informatization and internationalization. Now, Dongseo University is preparing for the era of the Fourth Industrial Revolution with a new vision of an innovative Future University.

Dongseo University is recognized as a leader in internationalization. Through its various global programs, as many as 1,000 students a year can obtain overseas experiences. Moreover, the university is expanding its global programs in areas such as joint degree programs with distinguished universities in foreign countries. These programs create opportunities both for students from overseas and for those at Dongseo University, who may visit one another’s country as though they are part of a single campus.

Through innovative future-oriented education, enhancement of global capabilities, and “education without dropouts,” which values the potential of each student, Dongseo University will help all of its students create a Bright Future.
Silver Partners

JEJU AIR

Since the establishment in 2005, JEJU AIR has made remarkable growth as Korea’s largest, most successful and profitable LCC. We offer scheduled regular flights, operating 7 domestic and 44 international routes in Asia Pacific region. To achieve economies of scale, we introduce 6-8 aircrafts annually and operate a fleet of about 50 aircrafts by 2020. Currently using AIR BUSAN. Thus, we have become a trusted carrier which the majority of passengers are travelling with.

AIR BUSAN[BX/ABL] was established in August, 2007 as a regional airline based in the southern area of Korea. In ten years, since our first launch flight departing Busan, we have expanded our regional sky. One in three passengers using Gimhae International Airport(PUS) is using AIR BUSAN. We offer scheduled regular flights, operating 7 domestic and 44 international routes in Asia Pacific Region. Opportunity to boost revenue via alliance increases exponentially with our expanded network growth.

Furthermore, JEJU AIR ensure that focusing on technology and infrastructure investment will contribute to enhance IT competitiveness as well as customer service for future growth. With this IT initiative, JEJU AIR aims to become a safer, more convenient and affordable airline.

www.jejuair.net

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EASTAR JET

Eastar Jet pleasant flight for you

Eastar Jet aims to allow everyone to enjoy flight. The airline that touches the heart of customers with reasonable price and the best safety and service, that’s ‘Eastar Jet’.

Eastar Jet currently operates five domestic routes and 27 international routes to countries such as China and Japan as well as Southeast Asia and, based on its cooperative network with China, has flown to China the most among Korean low-cost carriers. Eastar Jet has an unparalleled experience especially in charter flights to Pyongyang, North Korea. In 2015, it operated a special charter for Lee Hee-ho, wife of the former president Kim Dae-jung, to Pyongyang and recently, it successfully ran a special charter to the North Korean capital for the South Korean performance team visiting the city before the summit meeting between the North and South.

Greeting its 11th year anniversary this year, Eastar Jet is planning to have an IPO by 2019 based on its continued growth and aims to make a new leap to become the best LCC in Northeast Asia with the introduction of the next generation model B737-MAX, vigorous sales marketing, development of new routes, and visualization of regional airports.

www.eastarjet.com
The Only Aerospace Specialized Journal in Korea

<Aerospace & Defense>, which has published its first issue 29 years ago, is the only Korean journal specializing in aerospace field.

With in-depth articles and up to date aerospace news, it is the most favored aerospace journal by the Ministry of National Defense, the Air force·Army·Navy, the Defense Acquisition Program Administration(DAPA), Ministry of Land, Infrastructure and Transport, the aerospace industry, and the public who have an interest in aerospace.

<Aerospace & Defense> also has been publishing <Aerospace>, the Korea Aerospace Industries Association(KAIA)'s quarterly magazine since 2001.

The magazine of Authority, Acknowledged by the Government

<Aerospace & Defense> has been recognized as an opinion leader in Korea for its long history of 29 years and professionalism. Especially, the magazine has been acknowledged by the government as of 2007 when it was given the title of an “Outstanding Journal”.

In 2009, <Aerospace & Defense> was awarded by the government for contributing to Korea’s magazine culture, and it also became the Korean Magazine with “Outstanding Contents” in 2010, 2012, 2015 and 2018.

The official “Show News” publisher for the Seoul ADEX

<Aerospace & Defense> has been publishing the official “Show News” for the biennial Seoul ADEX since 1996. The magazine dispatches a task force of specialized journalists during the exhibition to provide coverage to both domestic and foreign businesses in the aerospace industry.

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We extend our sincere thanks to all Sessions Chairs, our conference hosts and every participant for your kind support!

We look forward to seeing you all next year in Amsterdam!