

21st Air Transport Research Society

World Conference
2017



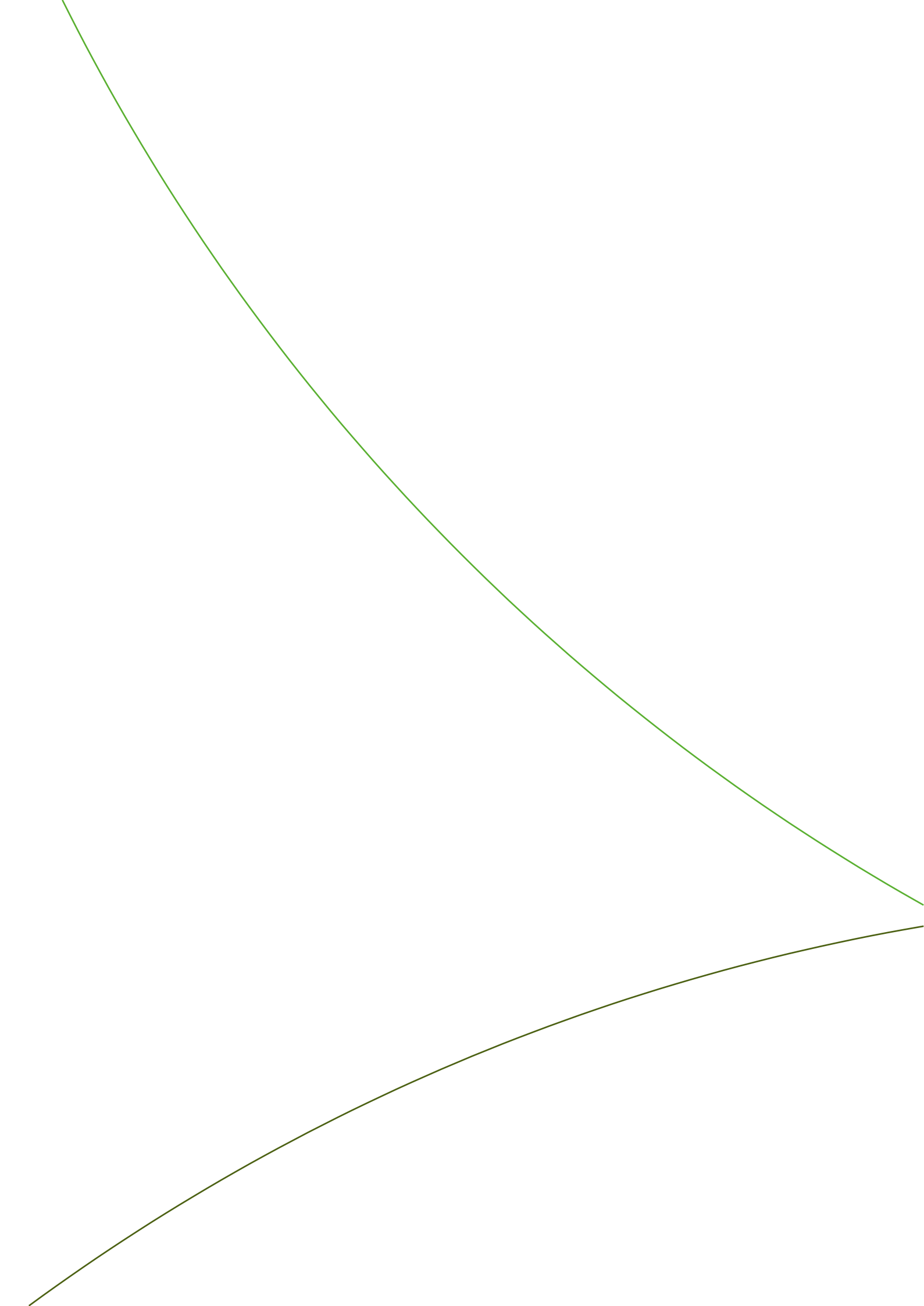
TPR

Department of Transport and Regional Economics
University of Antwerp



C-MAT

Centre for Maritime & Air Transport Management
University of Antwerp



Made possible by



**21st Air Transport
Research Society
World Conference 2017**

The logo consists of a dark green circle containing white text. The background of the entire page is a dark green color with several lighter green, curved, abstract shapes that create a sense of movement and depth. A thin white line curves across the upper portion of the page.

21st AirTransport
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World Conference
2017

Welcome on behalf of the local organizing committee



In the name of the University of Antwerp, the Faculty of Applied Economics, the Department of Transport and Regional Economics and C-MAT, the Centre for Maritime and Air Transport Management, I am very happy to welcome you in Antwerp. It gives us a feeling of great privilege to have been given the opportunity to organize this ATRS 2017 conference.

Originally a department focusing mainly on maritime and port research, the Department of Transport and Regional Economics has grown to become a knowledge and education centre for air transport as well. This development was supported by the creation of the Centre for Maritime and Air Transport Management, which provides an international management programme in which the students can choose to specialize in either maritime or air transport. Furthermore, there is an array of research methods that can be applied to both the maritime, as well as air transport sector.

For the ATRS conference, we are very much looking forward to an array of special sessions with interesting discussions between industry participants and participants from academia. Furthermore, the collection of fascinating papers going to be presented at this conference guarantees high quality contributions and a memorable program of the highest scientific standards and practical merit.

We thank everyone who contributed to this conference. We are indebted to our sponsors, colleagues and participants to make this event possible.

May your stay in the cosmopolitan city of Antwerp and your participation in this very special air transport conference be an enjoyable, interesting and unforgettable experience.

Professor Eddy Van de Voorde

Chair of the ATRS 2017 Organizing Committee

University of Antwerp organization team



Local organizing committee: Prof. dr. Eddy Van de Voorde, Prof. dr. Hilde Meersman (not pictured),
dr. Wouter Dewulf, dr. Franziska Kupfer, dr. Evy Onghena

With the help of: Thomas Van Asch, Sven Buyle, Veerle Joris and Kristel De Poorter

Welcome on behalf of the ATRS



PhD defense, University of Antwerp, 2013

Hartelijk welkom! (Welcome!) It is with great pleasure that I welcome you to the 21st ATRS World Conference in the beautiful city of Antwerp. We are very pleased to offer you a full slate of plenary sessions, panel sessions, and paper presentations on a vast array of topics related to aviation. Moreover, we hope that you will take the opportunity to renew old acquaintances and meet new friends during the lunches and coffee breaks, and at the Welcome Reception and Gala Dinner.

Although Antwerp may be best known for its seaport and for its diamond trading industry, the city has a rich aviation history as well. This history goes back to “The First Flying Week of Antwerp” in 1909, organized by the Aéroclub d’Anvers. Fourteen years later, Antwerp’s first airport was established. According to the historical account of the Antwerp International Airport, “An old railway truck was used as the station building, but was later replaced by a wooden chalet.”

These days, Antwerp has a small international airport, but more importantly, the University of Antwerp, through its Centre for Maritime & Air Transport Management, has become a worldwide leader in aviation management education. That is why we are especially pleased to be having our conference here this year. I would like to thank the organizers from the University of Antwerp, Prof. Van de Voorde, Prof. Meersman, Dr. Onghena, Dr. Dewulf, and especially, Dr. Kupfer, our main point-of-contact over the past couple of years, for all of their efforts in making this conference happen.

I wish you a productive and enjoyable conference.

Martin Dresner

President, ATRS

Keynote Speakers



Prof. dr. Ken Button, Professor of Public Policy at George Mason University

Prof. dr. Ken Button is Full Professor at the School of Public Policy and Director of the Centre for Transportation Policy, Operations and Logistics at George Mason University. He has published around 80 books and over 400 academic papers and is considered as a world-renowned expert on transportation policy. He has been an advisor to the Secretary General of the OECD and has been involved in various research projects for ICAO, the European Union, Transport Canada, the United Nations Department for Development Support & Management Services and the World Bank. He is also editor of two leading international academic journals and member of several other editorial boards. His area of research is in economics of privatization and regulation, environmental economics, regional economics, transport planning, transportation economics and urban economics.

Brian Pearce, Chief Economist and Director at IATA

Brian Pearce is Chief Economist and Director at the International Air Transport Association and visiting Professor at Cranfield University, Department of Air Transport. His specialization is in the economics of air transport, environmental policy, financial markets and macroeconomic forecasting. He is regularly being invited as expert adviser. He has been a member of the expert panel of the UK Airports Commission, member of ANZ's sustainability panel and adviser to ICAO on market based instruments.



Henrik Hololei, Director General for Mobility and Transport at the European Commission

Henrik Hololei is active in the European Commission since 2004, first as Head of Cabinet of Siim Kallas who acted as commissioner and Vice President responsible for, among others, Transport and Mobility, later as Deputy Secretary General and since October 2015 as Director General for Mobility and Transport. He has held the position of Minister of Economic Affairs of Estonia from 2001 - 2002 and has held various positions involved with European Integration within the Estonian Government.

The background is a solid green color with a white curved line that starts from the left edge and curves upwards and then downwards towards the right edge. The text is centered in the lower half of the image.

Programme Overview

Programme Overview

Wednesday, 5 July - Meetings and Reception

| | |
|-------------|---|
| 09:00-12:00 | ATRS Executive Committee Meeting (by invitation only) <i>Hof van Liere, Thomas Greshamzaal</i> |
| 12:00-12:30 | Lunch |
| 12:30-14:00 | ATRS Networking Committee Meeting (by invitation only) <i>Hof van Liere, Thomas Greshamzaal</i> |
| 14:00-15:30 | Airport Benchmarking Taskforce Meeting (by invitation only) <i>Hof van Liere, Thomas Greshamzaal</i> |
| 13:00-19:30 | Conference Registration (at the University of Antwerp until 17:30 and at the reception venue from 18:30 until 19:30) |
| 14:00-17:00 | Technical tours to Brussels Airport and Antwerp Airport (see information on the conference excursions on p. 32) |
| 16:00-18:00 | PhD Student and Junior Faculty Workshop <i>Room C.101</i> (workshop registration and conference badge required) |
| 18:30-20:30 | Welcome Reception at FelixArchief <i>FelixArchief</i> |

Thursday, 6 July - Plenary Sessions and Concurrent Paper Sessions

| | |
|---------------|---|
| 08:30-17:30 | Conference Registration |
| 09:00-12:30 | Plenary Sessions <i>Room C.204</i> |
| 09:00-09:15 | Welcome Address |
| 09:15-09:40 | Academic Keynote Speech by Prof. Kenneth Button, George Mason University |
| 09:40-10:20 | Industry Keynote Speech by Brian Pearce, IATA and Henrik Hololei, European Commission |
| 10:20-10:40 | Coffee break |
| 10:40-11:30 | Plenary panel: Air Transport Industry Prospects in the Changing World Moderator: Wouter Dewulf, University of Antwerp Panelists: Tae Oum, University of British Columbia Brian Pearce, IATA Henrik Hololei, European Commission Kenneth Button, George Mason University Herman Carpentier, Brussels Airlines François Gillet, Liege Airport |
| 11:30 - 12:30 | ATRS Global Airport Benchmarking Task Force Report and the Excellence Award Session |
| 12:30-14:00 | Lunch |
| 14:00-15:15 | Panel Sessions <i>Room C.204</i> |
| A. | Airport Panel Session: What are the key factors in comparing productivity among airports and how can these factors be captured when benchmarking? Moderator: Gianmaria Martini, University of Bergamo Panelists: Mario Diaz, Houston Airports Perry Miller, Jackson Municipal Airport |

Chunyan Yu, Embry-Riddle Aeronautical University
 Nicole Adler, Hebrew University of Jerusalem
 Thomas Woldbye, Copenhagen Airport
 Cathal Guimard, Dublin City University
 Rainer Koelle, Eurocontrol
 Kurt Daels, Brussels Airport


| | |
|-------------------|---|
| <i>Room C.003</i> | B. Airline Panel Session: What are the important research issues for the airline industry and how can industry help researchers undertake projects in these areas? Moderator: Christian Hofer, University of Arkansas Panelists: Jesus Rubio, IATA Brian Pearce, IATA Nikolay Mal'tsev, Cyprus Airways Sveinn Gundmundsson, Toulouse Business School Anming Zhang, University of British Columbia Li Zou, Embry-Riddle Aeronautical University |
| 15:15 - 15:30 | Break |
| 15:30 - 16:45 | Concurrent Paper Session I |
| 16:45 - 17:15 | Coffee break |
| 17:15 - 18:30 | Concurrent Paper SessionII |
| 17:15 - 18:30 | Special Session: How are ATRS Airport Efficiency Rankings Calculated Moderator: Tae Oum, University of British Columbia |
| <i>Room C.103</i> | |
| 18:30 - 19:30 | ATRS Special Interest Groups Meeting |
| <i>Room B.001</i> | |

Friday, 7 July - Concurrent Paper Sessions

| | |
|-------------------|--------------------------------|
| 08:30-17:30 | Conference Registration |
| 09:00-10:15 | Concurrent Paper Session III |
| 10:15-10:45 | Coffee break |
| 10:45-12:00 | Concurrent Paper Session IV |
| 12:00-13:30 | Lunch |
| 12:30-13:30 | Meet the Editors Panel Session |
| <i>Room C.103</i> | |
| 13:30-14:45 | Concurrent Paper Session V |
| 14:45-15:00 | Break |
| 15:00-16:15 | Concurrent Paper Session VI |
| 16:15-16:45 | Coffee break |
| 16:45-18:00 | Concurrent Paper Session VII |
| 19:00-... | Gala Dinner at ZOOAntwerp |

Saturday, 8 July - Concurrent Paper Sessions and Conference Closing Session

| | |
|-------------------|---|
| 09:00-12:00 | Conference Registration |
| 09:00-10:15 | Concurrent Paper SessionVIII |
| 10:15-10:45 | Coffee break |
| 10:45-12:00 | Concurrent Paper Session IX |
| 12:00-13:00 | ATRS General Assembly |
| <i>Room C.003</i> | |
| 14:00-16:00 | After Conference Excursion to DiamondLand in the Jewish Quarter |

Last minute changes to the programme will be communicated via the ATRS 2017 Facebook page.
 Don't forget to like us!  ATRS2017

Concurrent Paper Sessions Overview

| Thursday, 6 July | | | |
|-------------------------|-------------------------------------|---|-------------|
| 15:30 -16:45 | <i>Concurrent Paper Session I</i> | | |
| Session 1-A | <i>Room B.001</i> | Air Cargo 1 | see p.14 |
| Session 1-B | <i>Room B.002</i> | Air Transport Policy & Regulation 1 | see p.14 |
| Session 1-C | <i>Room B.003</i> | Airline Economics 1 | see p.14 |
| Session 1-D | <i>Room B.004</i> | Airline Planning and Operations Under Uncertainty1* | see p.15 |
| Session 1-E | <i>Room C.002</i> | Airline Strategy, Management and Operations 1 | see p.15 |
| Session 1-F | <i>Room C.101</i> | Airport Economics 1 | see p.15 |
| Session 1-G | <i>Room C.102</i> | Environmental Issues in Air Transport 1 | see p.15-16 |
| 17:15 -18:30 | <i>Concurrent Paper Session II</i> | | |
| Session 2-A | <i>Room B.001</i> | Airline Planning and Operations Under Uncertainty2* | see p.16 |
| Session 2-B | <i>Room B.002</i> | Airline Strategy, Management and Operations 2 | see p.16 |
| Session 2-C | <i>Room B.003</i> | Airport Economics 2 | see p.16 |
| Session 2-D | <i>Room B.004</i> | Intermodal and Air Travel Alternatives 1 | see p.16-17 |
| Session 2-E | <i>Room C.002</i> | Aviation Safety & Security1 | see p.17 |
| Session 2-F | <i>Room C.101</i> | Environmental Issues in Air Transport 2 | see p.17 |
| Session 2-G | <i>Room C.102</i> | Operations Research in Air Transport 1 | see p.17 |
| Friday, 7 July | | | |
| 09:00 -10:15 | <i>Concurrent Paper Session III</i> | | |
| Session 3-A | <i>Room B.001</i> | Air Cargo 2 | see p.18 |
| Session 3-B | <i>Room B.002</i> | Air Transport Policy & Regulation 2 | see p.18 |
| Session 3-C | <i>Room B.003</i> | Airline Economics 2 | see p.18 |
| Session 3-D | <i>Room B.004</i> | Airline Strategy, Management and Operations 3 | see p.18-19 |
| Session 3-E | <i>Room C.002</i> | Airport and Airline Performance 1 | see p.19 |
| Session 3-F | <i>Room C.101</i> | Airport Strategy, Management and Operations 1 | see p.19 |
| Session 3-G | <i>Room C.102</i> | Environmental Issues in Air Transport 3 | see p.19 |
| 10:45 -12:00 | <i>Concurrent Paper Session IV</i> | | |
| Session 4-A | <i>Room B.001</i> | Air Cargo 3 | see p.19-20 |
| Session 4-B | <i>Room B.002</i> | Air Transport Policy & Regulation 3 | see p.20 |
| Session 4-C | <i>Room B.003</i> | Airline Economics 3 | see p.20 |
| Session 4-D | <i>Room B.004</i> | Airport and Airline Performance 2 | see p.20 |
| Session 4-E | <i>Room C.002</i> | Airport Strategy, Management and Operations 2 | see p.20-21 |
| Session 4-F | <i>Room C.101</i> | Aviation & Tourism | see p.21 |
| Session 4-G | <i>Room C.102</i> | Environmental Issues in Air Transport 4 | see p.21 |
| 13:30 -14:45 | <i>Concurrent Paper Session V</i> | | |
| Session 5-A | <i>Room B.001</i> | Air Transport Demand 1 | see p.21-22 |
| Session 5-B | <i>Room B.002</i> | Air Transport Policy & Regulation 4 | see p.22 |

* We thank Bruno Santos, Delft University of Technology, for organizing these special topic sessions.

| | | | |
|-------------------------|---|--|-------------|
| Session 5-C | <i>Room B.003</i> | Airline Network Development 1 | see p.22 |
| Session 5-D | <i>Room B.004</i> | Airport and Airline Performance 3 | see p.22 |
| Session 5-E | <i>Room C.002</i> | Airport Strategy, Management and Operations 3 | see p.22-23 |
| Session 5-F | <i>Room C.101</i> | Human Resources Management in Air Transport | see p.23 |
| Session 5-G | <i>Room C.102</i> | Aviation Case Studies 1 | see p.23 |
| 15:00 -16:15 | <i>Concurrent Paper Session VI</i> | | |
| Session 6-A | <i>Room B.001</i> | Air Transport Demand 2 | see p.23-24 |
| Session 6-B | <i>Room B.002</i> | Air Transport Policy & Regulation 5 | see p.23 |
| Session 6-C | <i>Room B.003</i> | Airline Network Development 2 | see p.24 |
| Session 6-D | <i>Room B.004</i> | Airport and Airline Performance 4 | see p.24 |
| Session 6-E | <i>Room C.002</i> | Airport Case Studies 1 | see p.24-25 |
| Session 6-F | <i>Room C.101</i> | Airport Strategy, Management and Operations 4 | see p.25 |
| Session 6-G | <i>Room C.102</i> | Market Outlook and Future Development of Air Transport | see p.25 |
| 16:45 -18:00 | <i>Concurrent Paper Session VII</i> | | |
| Session 7-A | <i>Room B.001</i> | Airport Case Studies 2 | see p.25-26 |
| Session 7-B | <i>Room B.002</i> | Aviation & Economic Development1 | see p.26 |
| Session 7-C | <i>Room B.003</i> | Aviation Case Studies 2 | see p.26 |
| Session 7-D | <i>Room B.004</i> | Aviation safety & Security2 | see p.26 |
| Session 7-E | <i>Room C.002</i> | Intermodal and Air Travel Alternatives 2 | see p.26-27 |
| Session 7-F | <i>Room C.101</i> | Low-Cost Carriers 1 | see p.27 |
| Session 7-G | <i>Room C.102</i> | Operations Research in Air Transport 2 | see p.27 |
| Saturday, 8 July | | | |
| 09:00 -10:15 | <i>Concurrent Paper Session VIII</i> | | |
| Session 8-A | <i>Room B.001</i> | Air Traffic Control 1 | see p.28 |
| Session 8-B | <i>Room B.002</i> | Aviation & Economic Development2 | see p.28 |
| Session 8-C | <i>Room B.003</i> | Aviation Safety & Security3 | see p.28 |
| Session 8-D | <i>Room B.004</i> | Low-Cost Carriers 2 | see p.28-29 |
| Session 8-E | <i>Room C.002</i> | Marketing in AirTransport | see p.29 |
| Session 8-F | <i>Room C.101</i> | Operations Research in Air Transport 3 | see p.29 |
| Session 8-G | <i>Room C.102</i> | Revenue Management & Pricing 1 | see p.29 |
| 10:45 -12:00 | <i>Concurrent Paper Session IX</i> | | |
| Session 9-A | <i>Room B.001</i> | Air Traffic Control 2 | see p.30 |
| Session 9-B | <i>Room B.002</i> | Aviation & Economic Development3 | see p.30 |
| Session 9-C | <i>Room B.003</i> | Aviation Case Studies 3 | see p.30 |
| Session 9-D | <i>Room B.004</i> | Aviation Finance | see p.30 |
| Session 9-E | <i>Room C.002</i> | Mergers and Alliances in AirTransport | see p.31 |
| Session 9-F | <i>Room C.101</i> | Operations Research in Air Transport 4 | see p.31 |
| Session 9-G | <i>Room C.102</i> | Revenue Management & Pricing 2 | see p.31 |

The image shows a cover for a conference programme. The background is a dark green color with a lighter green curved shape at the top. The text 'Conference Programme' is written in a large, white, sans-serif font, centered on the page.

Conference Programme

Conference Programme

2017 ATRS World Conference Program

Wednesday, 5 July

| | |
|-------------|--|
| 9:00-12:00 | ATRSExecutive Committee Meeting <i>(by invitation only)</i> <i>Hof van Liere, Thomas Greshamzaal</i> |
| 12:00-12:30 | Lunch |
| 12:30-14:00 | ATRNetworking Committee Meeting <i>(by invitation only)</i> <i>Hof van Liere, Thomas Greshamzaal</i> |
| 14:00-15:30 | Airport Benchmarking Taskforce Meeting <i>(by invitation only)</i> <i>Hof van Liere, Thomas Greshamzaal</i> |
| 13:00-19:30 | Conference Registration (at University of Antwerpen until 17:30, and at reception venue from 18:30 until 19:30) |
| 14:00-17:00 | Technical tours to Brussels Airport and Antwerp Airport |
| 16:00-18:00 | PhD Student and Junior Faculty Workshop <i>Room: C.101</i> (workshop registration and conference badge required) |
| 18:30-20:30 | Welcome Reception at FelixArchief <i>FelixArchief</i> |

Thursday, 6 July

| | |
|-------------|---|
| 8:30-17:30 | Conference Registration |
| 9:00-9:15 | Welcome Address Martin Dresner, University of Maryland, ATRS President Eddy Van de Voorde, University of Antwerp Herman Van Goethem, University of Antwerp |
| 9:15-9:40 | Academic Keynote Speech <i>Room: C.204</i> Kenneth Button, George Mason University |
| 9:40-10:20 | Industry Keynote Speech <i>Room: C.204</i> Brian Pearce, IATA Henrik Hololei, European Commission |
| 10:20-10:40 | Coffee break |
| 10:40-11:30 | Panel Debate <i>Room: C.204</i> Moderator: Wouter Dewulf, University of Antwerp Panelists: Tae Oum, University of British Columbia Brian Pearce, IATA Henrik Hololei, European Commission Kenneth Button, George Mason University Herman Carpentier, Brussels Airlines François Gillet, Liege Airport |
| 11:30-12:30 | ATRSGlobal Airport Benchmarking Task Force Report and the Excellence Award Presentation <i>Room: C.204</i> Moderator: Mario Diaz, Houston Airports Presenter: Chunyan Yu, Embry-Riddle Aeronautical University |
| 12:30-14:00 | Lunch |
| 14:00-15:15 | Airport Panel Session <i>Room: C.204</i> Moderator: Gianmaria Martini, University of Bergamo Panelists: Mario Diaz, Houston Airports Perry Miller, Jackson Municipal Airport Chunyan Yu, Embry-Riddle Aeronautical University |

Nicole Adler, Hebrew University of Jerusalem
 Thomas Woldbye, Copenhagen Airport
 Cathal Guiomard, Dublin City University
 Rainer Koelle, Eurocontrol
 Kurt Daels, Brussels Airport

14:00-15:15
 Room: C.003
Airline Panel Session
 Moderator: Christian Hofer, University of Arkansas
 Panelists: Jesus Rubio, IATA
 Brian Pearce, IATA
 Nikolay Mal'tsev, Cyprus Airways
 Sveinn Gundmundsson, Toulouse Business School
 Anming Zhang, University of British Columbia
 Li Zou, Embry-Riddle Aeronautical University

15:15-15:30 Break

Concurrent Session I (Thursday, July 6, 15:30-16:45)

15:30-16:45 1-A
 Room: B.001
Air Cargo 1
 Chair: Eddy Van de Voorde, University of Antwerp
 107 A Gravity Model for Air Cargo (Eric Pels, VU University; Howard Riddiough, Schiphol Group; Anton van den Berg, Schiphol Group)
 123 A Spatial Analysis of Integrated Carriers Air Transport Networks in Asia (Davide Scotti, University of Bergamo; Paolo Malighetti, University of Bergamo; Gianmaria Martini, University of Bergamo; Renato Redondi, University of Bergamo)
 179 Global Air Cargo Flows Estimation Based on O/D Trade Data (Lars Meijs, Delft University of Technology; Bruno Santos, Delft University of Technology)

15:30-16:45 1-B
 Room: B.002
Air Transport Policy & Regulation 1
 Chair: Benny Mantin, University of Luxembourg
 17 How to Evaluate the Openness of Air Service Agreements? The Case of China's ASAs (Xingwu Zheng, Civil Aviation University of China)
 97 Bilateral Air Service Policy and Airlines Competition under Mixed Oligopolistic Single International Market (Yi Zhang, Civil Aviation University of China; Xingwu Zheng, Civil Aviation University of China)
 126 Do Bumped Passengers Exhibit Loss Aversion? Evidence from the US Airline Industry (Hideki Fukui, Ehime University; Koki Nagata, University of Maryland)
 324 Bankruptcy in International vs Domestic Markets: Evidence from the Airline Industry (Benny Mantin, University of Luxembourg; Sebastian Bock, University of Applied Sciences Bremen; Hans-Martin Niemeier, University of Applied Sciences Bremen; Peter Forsyth, Monash University)

15:30-16:45 1-C
 Room: B.003
Airline Economics 1
 Chair: Nicola Volta, Cranfield University
 29 Rival's Presence and Factors of Market Power in the Airline Industry (Ryohei Yamamoto, Kobe University)
 185 What Kind of Competition Matters? Aggregate Look at U.S. Airfares (Volodymyr Bilotkach, Newcastle University)
 213 Modelling the Potential for Aviation Liberalization in Central Asia - Market Analysis and Implications for the One-Belt-One-Road Initiative (Xiaowen Fu, University of Sydney; Kun Wang, University of British Columbia; Achim Czerny, Hong Kong Polytechnic University; Guowei Hua, Beijing Jiaotong University; Zheng Lei, University of Surrey)
 100 Do Airlines Pass through Cost Changes to Passengers? (Nicola Volta, Cranfield University; Davide Scotti, University of Bergamo)

| | | |
|-----------------------------------|-----|---|
| 15:30-16:45 <i>Room: B.004</i> | 1-D | Airline Planning and Operations Under Uncertainty 1 Chair: Milan Janic, Delft University of Technology |
| | | 34 A Multistage Stochastic Programming Model for Air Cargo Assignment under Capacity Uncertainty (Felipe Delgado, Pontifical Catholic University of Chile; Richado Trincado, Pontifical Catholic University of Chile; Bernardo Pagnoncelli, Adolfo Ibáñez University) |
| | | 47 Creation of Robust Operation Itineraries for a Freighter Airline (Sebastian Gebhardt, Pontifical Catholic University of Chile; Felipe Delgado, Pontifical Catholic University of Chile; Gustavo Angulo, Pontifical Catholic University of Chile) |
| | | 235 Analyzing Airline Scheduling Processes Based on Real Data (Marius Radde, German Aerospace Center (DLR); Klaus Luetjens, German Aerospace Center (DLR)) |
| | | 21 Modelling Resilience of an Airline Freight/Cargo Transport Network (Milan Janic, Delft University of Technology) |
| 15:30-16:45 <i>Room: C.002</i> | 1-E | Airline Strategy, Management and Operations 1 Chair: Ian Douglas, University of New South Wales |
| | | 153 Empirical Analysis of the Market Competition Structure between FSC and LCC - The Case of Thailand and Australia (Jun Mizutani, Kobe University; Nattan Luanghiran, Kobe University; Navatasn Kongsamutr, Kasetsart University) |
| | | 368 Full Service and Low-Cost Airlines: Are Business Practices Converging Overtime (Bijan Vasigh, Embry-Riddle Aeronautical University; Farshid Azadian, Embry-Riddle Aeronautical University) |
| | | 373 Business Model Convergence - Long Haul LCC Connectivity (Ian Douglas, University of New South Wales; David Tan, University of New South Wales) |
| 15:30-16:45 <i>Room: C.101</i> | 1-F | Airport Economics 1 Chair: Gianmaria Martini, University of Bergamo |
| | | 71 International Hub: Congestion Pricing and Capacity Investment (Ming Hsin Lin, Osaka University of Economics) |
| | | 156 Air Traffic Development in ASEAN: An Airport Capacity Analysis (Estelle Malavolti, ENAC (TSE); Isabelle Laplace, ENAC (Sustainable Development Program)) |
| | | 175 How to Mix Per-flight and Per-passenger Based Airport Charges: The Competition Case (Achim Czerny, Hong Kong Polytechnic University; Simon Cowan, University of Oxford; Anming Zhang, University of British Columbia) |
| | | 127 Persistent and Transient Inefficiency in Airport Cost Function (Gianmaria Martini, University of Bergamo; Davide Scotti, University of Bergamo; Domenico Viola, University of Bari) |
| 15:30-16:45 <i>Room: C.102</i> | 1-G | Environmental Issues in Air Transport 1 Chair: Sveinn Gudmundsson, Toulouse Business School |
| | | 1 Eco-Labels in the Aviation Industry - Instrument for Behavioral Change? (Stefan Baumeister, University of Jyväskylä; Alex Hoffendahl, University of California, Los Angeles) |
| | | 150 Knowledge, Attitudes and Intentions: A Cross-Cultural Analysis Concerning Environmental Impacts of Aviation and Mitigation Strategies for Air Passengers (Jin-Long Lu, National Kaohsiung Marine University; Wen-Chun Tseng, University of South Australia) |
| | | 238 ICAO's New GMBM CORSIA: A Critical Discussion of the Scheme's Environmental Effectiveness and Competitive Impacts (Janina Scheelhaase, German Aerospace Center (DLR); Sven Maertens, German Aerospace Center (DLR); Wolfgang Grimme, German Aerospace Center (DLR)) |

- 356 An Analysis of the Effectiveness of Airport Charges to Reduce Nox Emissions (Gustavo Alonso, Polytechnic University of Madrid; Arturo Benito, Polytechnic University of Madrid)

10:15-10:45

Coffee break

Concurrent Session II (Thursday, July 6, 17:15-18:30)

17:15-18:30 2-A

Room: B.001

Airline Planning and Operations Under Uncertainty 2

Chair: Bruno Santos, Delft University of Technology

- 38 An Approach to Deduce Unknown Passenger Characteristics from Known Passenger Data (Steffen Wenzel, German Aerospace Center (DLR); Erik Grunewald, German Aerospace Center (DLR); Daniel Frontzek, Hamburg University of Technology; Peter Biesslich, German Aerospace Center (DLR); Klaus Luetjens, German Aerospace Center (DLR))
- 190 Robust Crew Scheduling - Addressing the Crew Pairing Problem (David Antunes, University of Coimbra; Vikrant Vaze, Thayer School of Engineering, Dartmouth; Antonio Antunes, University of Coimbra)
- 133 Dynamic Decision Support Tool for Crew Recovery in Disrupted Operations (Niek J.M. Hoeben, Delft University of Technology; Bruno Santos, Delft University of Technology)
- 62 Sequential Approach for Solving the Dynamic Aircraft Recovery Problem (Jeroen Vink, Delft University of Technology; Bruno Santos, Delft University of Technology; Wim Verhagen, Delft University of Technology; Ivo Medeiros, Embraer; Ricardo Filho, Embraer)

17:15-18:30 2-B

Room: B.002

Airline Strategy, Management and Operations 2

Chair: Wouter Dewulf, University of Antwerp

- 183 A Fuzzy-based DEA Method to Evaluate Efficiency of Airlines: Implication to South-East and Central Europe (Jovana Kuljanin, University of Belgrade; Milica Kalic, University of Belgrade; Leonardo Caggiani, Polytechnic University of Bari; Michele Ottomanelli, Polytechnic University of Bari)
- 206 The Perception of Organizational Trust and Job Satisfaction of Flight Attendants: A Model of Improving the Well-being of Human Service Employees (Noriko Okabe, Yokohama National University)
- 232 Vertical Alliance of FSC and LCC Based on the Network Analysis (Young-In Kim, Inha University; Yonghwa Park, Inha University)

17:15-18:30 2-C

Room: B.003

Airport Economics 2

Chair: Yap Yin Choo, British Columbia Institute of Technology

- 40 A System Dynamics Model of the Airport-Airline Financial Interaction (Luis Saias Oliveira, IST, University of Lisbon; Vasco Reis, IST, University of Lisbon; Rosario Macario, IST, University of Lisbon)
- 73 Identifying Niche Markets for Ten Asian Aviation Hubs (Yu-Chun Chang, National Taiwan Ocean University; Wei-Hao Lee, National Taiwan Ocean University; Chia-Jui Hsu, Taoyuan Airport Corporation)
- 345 The Impacts of the Disproportionate Burden of Regulatory Costs on the UK's Smaller Airports (Basil O'Fee, Northpoint Aviation Services; Christopher Cain, Northpoint Aviation Services)
- 130 Impacts of Airline's Market Structure and Airport Congestion on Airport's Market Power (Yap Yin Choo, British Columbia Institute of Technology; Kun Wang, University of British Columbia; Leonardo Corbo, Catholic University of Portugal)

17:15-18:30 2-D

Room: B.004

Intermodal and Air Travel Alternatives 1

Chair: Shinya Hanaoka, Tokyo Institute of Technology

- 108 Accessibility to Italian Remote Regions: Comparison Among Different Transport Alternatives (Paolo Beria, Politecnico di Milano; Antonio Laurino, Politecnico di Milano; Paolo Beria, Politecnico di Milano; Andrea Debernardi, META srl)

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| | | 294 | Modelling Mode Choice Behaviour in the Context of Air-HSR Intermodality in China (Fangqing Song, University of Leeds) |
| | | 165 | Impact of High-speed Rail Entry on Airport and Access Mode Choice Behavior in China (Shinya Hanaoka, Tokyo Institute of Technology; Jiawen Jiang, Tokyo Institute of Technology; Daisuke Fukuda, Tokyo Institute of Technology) |
| 17:15-18:30 | 2-E | | Aviation Safety & Security 1 |
| Room: C.002 | | Chair: | Yeong-Heok Lee, Korea Aerospace University |
| | | 219 | Strategy of Improving the UAVs Pilot License and Training Policy in ROK (Yongseok Kim, Korea Transportation Safety Authority; Sungwon Choi, Korea Transportation Safety Authority) |
| | | 245 | An Innovative Approach for Achieving DO178C Certification of an Intelligent System Implementing Sense-and-Avoid Function in UAVs (John Pyrgies, University of Namur; Daniel-Frederic Gigan, Centre d'excellence Drones (CED); Rob Haelterman, Royal Military Academy) |
| | | 308 | Drone Legal Campaign (Giovano Palma, Ministry of Transport; Itala Giovana Pereira Cavalli, Ministry of Transport; Marco Antonio Lopes Porto, Ministry of Transport; Shamash da Frota Vicentini, Ministry of Transport; Thiago Pereira Pedroso, Ministry of Transport) |
| 17:15-18:30 | 2-F | | Environmental Issues in Air Transport 2 |
| Room: C.101 | | Chair: | Cherie Lu, Chang Jung Christian University |
| | | 85 | Nanoparticles Emission from Aircraft in Area Adjacent to the Airport (Remigiusz Jasinski, Poznan University of Technology; Jacek Pielecha, Poznan University of Technology; Jaroslaw Markowski, Poznan University of Technology) |
| | | 180 | Exhaust Emissions Model Verification for a Small Aircraft during Flight (Jaroslaw Markowski, Poznan University of Technology; Pielecha Jacek, Poznan University of Technology; Remigiusz Jasinski, Poznan University of Technology) |
| | | 337 | Updating of Aircraft Noise Management Policy in Brazil: A Demand to Achieve Noise Management Conflicts (Tania Cristina De Menezes Caldas, Federal University of Rio de Janeiro; Jules Ghislain Slama, Federal University of Rio de Janeiro) |
| | | 160 | The Evaluation of Environmental Benefits and Costs for the Use of Biofuels in Commercial Flights (Cherie Lu, Chang Jung Christian University) |
| 17:15-18:30 | 2-G | | Operations Research in Air Transport 1 |
| Room: C.102 | | Chair: | Xiaowen Fu, University of Sydney |
| | | 9 | A New Approach to Estimate the Confidence Intervals for DEA Efficiency Scores with Application for the Asia-Pacific Airlines (Thanh Ngo, Massey University) |
| | | 201 | An Iterative Approach for the Airport Management Problem (Luis Cadarso, Rey Juan Carlos University; Alejandra Taborda Londoño, Polytechnic University of Madrid (UPM); Angel Gracia, Polytechnic University of Madrid (UPM)) |
| | | 330 | Impact of Multi-criteria Trajectory Optimization on Airline and Network Efficiency (Judith Rosenow, Technical University of Dresden; Hartmut Fricke, Technical University of Dresden) |
| | | 55 | An improved Cellular Automata Model for Passenger Boarding (Xinhui Ren, Civil Aviation University of China; Hong Jiang, Civil Aviation University of China) |
| 18:30-19:30 | | | ATRS Special Interest Groups Meeting |
| Room: B.001 | | | Moderator: Sveinn Gudmundsson, Toulouse Business School |

Friday 7-Jul

Concurrent Session III (Friday, July 7, 9:00-10:15)

| | | |
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| 9:00-10:15 | 3-A | Air Cargo2 |
| <i>Room: B.001</i> | Chair: | Peter Morrell, CranfieldUniversity |
| | 49 | Strategies of Air Cargo Carriers in a Changing Business Environment (Wouter Dewulf, University of Antwerp) |
| | 131 | Does Cargo Matter? A Comparison of Delays of Pure Passenger and Combination Carriers (Anne Lange, TU Darmstadt) |
| | 256 | Is Your Belly Empty? - The Analysis of the Transition from Full Freighters to Belly Cargo for KLM (Miguel Mujica Mota, Amsterdam University of Applied Sciences; Abdel el Makhoulf, Amsterdam University of Applied Sciences; Geert Boosten, Amsterdam University of Applied Sciences; Bernard Van Dijk, Amsterdam University of Applied Sciences; Etienne Hunt, Amsterdam University of Applied Sciences) |
| | 59 | The Allocation of Fuel Costs between Passengers and Cargo on Long-Haul Passenger Flights (Peter Morrell, Cranfield University) |
| 9:00-10:15 | 3-B | Air Transport Policy & Regulation 2 |
| <i>Room: B.002</i> | Chair: | Xingwu Zheng, Civil Aviation University China |
| | 95 | Fifth Freedom Traffic Rights: Formidable Threat or Theoretical Concern? (Jae Woon Lee, Embry-Riddle Aeronautical University-Asia; Will Horton, Centre For Aviation) |
| | 252 | The Optimal Market Concentration for Minimal Airline Delays and Airfare (Chih-Peng Chu, National Dong Hwa University; Che-Yu Chen, National Dong Hwa University; Che-Ming Chen, National Dong Hwa University; Chia-Ching Liang, National Dong Hwa University) |
| | 295 | Do Open Skies Lead to Subsidies? (William Morrison, Wilfrid Laurier University) |
| 9:00-10:15 | 3-C | AirlineEconomics 2 |
| <i>Room: B.003</i> | Chair: | Anming Zhang, University of British Columbia |
| | 149 | Empirical Evidence on the Level of Transaction Costs in the Airline Ticket Distribution Context (Md Mahbubul Hakim, University of Sydney; Rico Merkert, University of Sydney) |
| | 250 | The Analysis of Impact of Larger Aircraft A380 on Frequency of Flights (Isabelle Laplace, Ecole Nationale de l'Aviation Civile; Aliya Ussinova, TSE; Chantal Roucolle, ENAC/DEVI) |
| | 289 | Impact of Airline Business Models, Market Segments and Regions on Aircraft Cabin Configurations (Oluwaferanmi Oguntona, Munich Aerospace; Kay Ploetner, Bauhaus Luftfahrt e.V.; Marcia Urban, Bauhaus Luftfahrt e.V.; Raoul Rothfeld, Bauhaus Luftfahrt e.V.; Mirko Horning, Bauhaus Luftfahrt e.V.) |
| | 48 | Effect of High-Speed Rail (HSR) Speed on Airline Demand and Price Empirical Evidence from a Natural Experiment in China (Qiong Zhang, Anhui Normal University; Anming Zhang, University of British Columbia; Wenyi Xia, University of British Columbia; Kun Wang, University of British Columbia) |
| 9:00-10:15 | 3-D | Airline Strategy, Management and Operations 3 |
| <i>Room: B.004</i> | Chair: | Evy Onghena, University of Antwerp |
| | 159 | Business Model Innovation in Aviation: An Application Case of the Business Model Navigator to the Airline Industry (Marcia Urban, Bauhaus Luftfahrt e.V.; Kay Olaf Ploetner, Bauhaus Luftfahrt e.V.; Alexander Vencken, BMI Lab AG) |
| | 202 | Exploring Airlines Organisational Culture: A Content Analysis of Mission and Vision Statements (Bo Lin, Whitireia; Kan Wai Hong Tsui, Massey University) |

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| | | 332 | Liberalisation, Low-cost competition and Hub Premiums: Assessing Price Impacts in the China - ASEAN Aviation Market (Zheng Lei, University of Surrey; Ruowei Chen, COMAC) |
| 9:00-10:15 | 3-E | | Airport and Airline Performance 1 |
| | Room: C.002 | Chair: | Koki Nagata, University of Maryland |
| | | 67 | Sense Making from Corporate Discourse: A Study of Airline Annual Reports and How Airline Analysts Evaluate Them (Louis Thwaites, Concordia University; Louis Thwaites, Concordia University) |
| | | 110 | Airlines Operation Impacts on Airports Efficiency - The Low-Cost Case Study (Tiago Rosa, University of Beira Interior; Maria E. Baltazar, University of Beira Interior; Jorge Silva, University of Beira Interior) |
| | | 112 | Multi-Criteria Decision Analysis to Assess Airlines Performances and Efficiency (Miguel Miranda, University of Beira Interior; Tiago Rosa, University of Beira Interior (UBI); Maria E. Baltazar, University of Beira Interior; Jorge Silva, University of Beira Interior) |
| | | 122 | Understanding Consumer Preferences with Airline Scheduling (Sukru Nenem, University of Westminster; Anne Graham, University of Westminster; Nigel Dennis, University of Westminster) |
| 9:00-10:15 | 3-F | | Airport Strategy, Management and Operations 1 |
| | Room: C.101 | Chair: | Balam Bheodari, Atlanta Airport |
| | | 167 | Airport and City Center Rivalry (Hanxiang Zhang, Hong Kong Polytechnic University; Achim Czerny, Hong Kong Polytechnic University) |
| | | 335 | Airport Market Power and the Impacts on Business Development (Dimitrios Dimitriou, Democritus University of Thrace) |
| | | 354 | Airport Service Quality (ASQ) from Twitter (Luis Martin-Domingo, Ozyegin University; Juan Carlos Martin, University of Las Palmas de Gran Canaria; Glen Mandsberg, SureSMS Aps) |
| 9:00-10:15 | 3-G | | Environmental Issues in Air Transport 3 |
| | Room: C.102 | Chair: | Frederic Dobruszkes, Brussels Free University |
| | | 19 | Is the Aggregate Fuel-Conservation Effect of a Higher Fuel Price Felt at the Aircraft-Model Level? (Chrystiane Abreu, CEFET/RJ /UFRJ) |
| | | 268 | Air Traffic Assignment to Reduce Population Noise Exposure: An Approach Incorporating Human Mobility Patterns (Emir Ganic, University of Belgrade; Obrad Babic, University of Belgrade) |
| | | 361 | Is Airline Merging Good for Local Airport Environmental Conditions? (Jasenka Rakas, University of California, Berkeley; Naya Olmer, University of California, Berkeley; Aleksandar Bauranov, Urbanova; Debdas Sen, TCG Digital) |
| | | 116 | Wrong Maps Affecting Political Decision-making Process: The Case of Aircraft Noise in Brussels, Belgium (Frederic Dobruszkes, Brussels Free University (ULB); Didier Peeters, Brussels Free University (ULB)) |
| 10:15-10:45 | | | Coffee break |

Concurrent Session IV (Friday, July 7, 10:45-12:00)

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| 10:45-12:00 | 4-A | | Air Cargo 3 |
| | Room: B.001 | Chair: | Tae Seung Kim, Inha University |
| | | 138 | Profitability Studies of Delivery Logistics Supported by Unmanned Aerial Systems (Florian Heinitz, Erfurt University of Applied Sciences) |
| | | 291 | Air Cargo Carriers Performance and Efficiency Analysis Using a MCDA Methodology (Duarte Cachola, University of Beira Interior/University of Lisbon; Maria E. Baltazar, University of Beira Interior/University of Lisbon; Vasco Reis, University of Lisbon; Jorge Silva, University of Beira Interior/University of Lisbon) |

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| | | 353 | Route Choice Decision Factors in Air Cargo Transport Market: The Case between Northeast Asia and EU (Kichan Park, Inha University; Tae Seung Kim, Inha University; Jae Hong Park, Inha University) |
| | | 352 | Price Elasticity Change of the Demand for Air Cargo before and after the Financial Crisis: The Case in Incheon Airport(ICN) (Tae Seung Kim, Inha University; Mina Chae, Inha University) |
| 10:45-12:00 | 4-B | | Air Transport Policy & Regulation 3 |
| | <i>Room: B.002</i> | Chair: | Mikio Takebayashi, Kobe University |
| | | 173 | A Congestion Policy Game (Hao Lang, Hong Kong Polytechnic University; Achim Czerny, Hong Kong Polytechnic University) |
| | | 210 | Implications of Korean Air Transport Industry after Ten Years of LCCs Market Participation (Jinseo Park, Korea Transportation Institute; Je-Chul Kim, Korea Transportation Institute; Sun Wook Park, Korea Transportation Institute; Yeon Myung Kim, The Korea Transport Institute) |
| | | 239 | The Impacts and Relationship between Governance Structure, Regulation, and Airport Investment (Jody Kositsky, C-MAT, University of Antwerp; Franziska Kupfer, C-MAT, University of Antwerp) |
| | | 86 | Managing the Reliever Gateway Airports with High Speed Rail Network (Mikio Takebayashi, Kobe University) |
| 10:45-12:00 | 4-C | | Airline Economics 3 |
| | <i>Room: B.003</i> | Chair: | Chikage Miyoshi, Cranfield University |
| | | 263 | Is Multimarket Contact an Antitrust Concern: A Study of China's Airline Market? (Yahua Zhang, University of Southern Queensland) |
| | | 279 | The Purpose of Airline Philanthropy (Deborah Ancell, University of Westminster) |
| | | 184 | The Impact of Fleet Commonality on Airline Cost Structures (Andy Foster, Cranfield University; Chikage Miyoshi, Cranfield University; Carlos Vietes) |
| 10:45-12:00 | 4-D | | Airport and Airline Performance 2 |
| | <i>Room: B.004</i> | Chair: | Renato Redondi, University of Bergamo |
| | | 39 | Bootstrapped DEA of Airport Management Performance before and after Concessions in Brazil (Elton Fernandes, Federal University of Rio de Janeiro; Ricardo Rodrigues Pacheco, Federal University of Rio de Janeiro) |
| | | 282 | Passenger Boarding: Model and Operations (Michael Schultz, German Aerospace Center (DLR)) |
| | | 351 | Research on the transition of aviation network structure in Japan (Kazuyuki Takada, Tokyo Denki University; Masayuki Shimizu, Tokyo Denki University; Hiroyuki Fukushima, Tokyo Denki University) |
| | | 139 | The Turnaround Game: Real Efficiency Levels for Carriers and Airports in Europe (Chiara Morlotti, University of Pavia; Paolo Malighetti, University of Bergamo; Renato Redondi, University of Bergamo; Stefano Paleari, University of Bergamo) |
| 10:45-12:00 | 4-E | | Airport Strategy, Management and Operations 2 |
| | <i>Room: C.002</i> | Chair: | Volodymyr Bilotkach, Newcastle University |
| | | 60 | Modelling Regional Accessibility towards Airports Using Discrete Choice Models: An Application to the Apulian Airport System (Angela Stefania Bergantino, University of Bari Aldo Moro; Capurso Mauro, University of Leeds) |
| | | 152 | Study on the Effect Factors and Behavior Characteristics of Passengers Travel Behavior Based on Tianjin Binhai International Airport (Hong Jiang, Civil Aviation University of China; Xinhui Ren, Civil Aviation University of China) |

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| | | 162 | What Factors Matter for the Development of an Airport? Gaining an Insight into Strategic Management Practices at Polish Regional Airports (Sonia Huderek-Glapska, Poznan University of Economics and Business; Hanna Nowak, Poznan University of Economics and Business) |
| | | 171 | DEA Efficiency in Spanish Airports: A Time Evolution Analysis (Ane Ripoll-Zarraga, Universitat Autònoma de Barcelona; Cecilio Mar-Molinero, Autonomous University of Barcelona) |
| 10:45-12:00 | 4-F | Aviation & Tourism | |
| <i>Room: C.101</i> | | Chair: | Anne Graham, University of Westminster |
| | | 32 | A Study on Service Quality and Customer Satisfaction of the Cross-Strait Flights between Kaohsiung and the Mainland China (Chi-Ruey Jeng, Shu-Te University) |
| | | 120 | Market Characteristic and Route Performance of Charter Service from China to Southeast Asia (Chuntao Wu, Sichuan University; Lei Peng, Air China) |
| | | 305 | Computable General Equilibrium Estimates of the Impact of Air Transport Policies on the Egyptian Tourism Sector (Eric Tchouamou Njoya, University of Huddersfield) |
| | | 106 | Who Flies the British to the Sun? (Anne Graham, University of Westminster; Nigel Dennis, University of Westminster) |
| 10:45-12:00 | 4-G | Environmental Issues in Air Transport 4 | |
| <i>Room: C.102</i> | | Chair: | Robert Windle, University of Maryland |
| | | 140 | Environmental Effects of Airport Connectivity on Local Communities (Maria Nadia Postorino, Mediterranea University of Reggio Calabria; Luca Mantecchini, University of Bologna) |
| | | 188 | The Social Dimension of Airline CSR: A Global Comparison (Robert Mayer, Cranfield University) |
| | | 193 | AIM2015: Validation and Initial Results from an Open-Source Aviation Systems Model (Lynnette Dray, University College London; Philip Krammer, University College London; Khan Doyme, University College London; Bojun Wang, University College London; Kinan Al Zayat, University College London; Aidan O'Sullivan, University College London; Andreas Schafer, University College London) |
| 12:00-13:30 | | Lunch | |
| 12:30-13:30 | | Meet the Editors Panel Session | |
| <i>Room: C.103</i> | | Panelists: | |
| | | Tae Oum (EIC, Transport Policy) | |
| | | Rico Merkert (Co-EIC, Journal of Air Transport Management) | |
| | | Gianmaria Martini (VP-Publications for ATRS Special Issues, Notes Editor Journal of Air Transport Management) | |
| | | Sveinn Gudmundsson (Co-EIC, Journal of Air Transport Management and AE, Transportation Research Part E) | |
| | | Andreas Papatheodorou (EIC, Journal of Air Transport Studies) | |
| Concurrent Session V (Friday, July 7, 13:30-14:45) | | | |
| 13:30-14:45 | 5-A | Air Transport Demand 1 | |
| <i>Room: B.001</i> | | Chair: | Davide Scotti, University of Bergamo |
| | | 66 | Modelling Airport Choice Behavior: A Case Study on the Major Brazilian Multi-Airport System (Taina Possas Abreu, Aeronautical Institute of Technology; Anderson Ribeiro Correia, Aeronautical Institute of Technology; Giovanna Miceli Ronzani Borille, Aeronautical Institute of Technology) |

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| | | 195 | A Methodology for Forecasting Passengers in Airport Networks Based on the Segregation of Primary and Secondary Demand (Leandro Silva, Ministry of Transport, Ports and Civil Aviation; Rubem Oliveira de Paula, Ministry of Transport, Ports and Civil Aviation; Rodrigo Cruz, Ministry of Transport, Ports and Civil Aviation; Marcelo Vilela, Ministry of Transport, Ports and Civil Aviation) |
| | | 218 | The Congestion Spillover Effects of Hong Kong International Airport to Nearby Airports (Tommy King Yin Cheung, Hang Seng Management College; Anming Zhang, University of British Columbia; Wai Hung Wong, Hang Seng Management College; Edmund Wu, Hang Seng Management College) |
| | | 360 | Market Stimulation of New Airline Routes (Howard Riddiough, Amsterdam Airport Schiphol; Thijs Bonnekamp, Amsterdam Airport Schiphol) |
| 13:30-14:45 | 5-B | | Air Transport Policy & Regulation 4 |
| | <i>Room: B.002</i> | Chair: | Achim Czerny, Hong Kong Polytechnic University |
| | | 28 | Study on Competitiveness Assessment Indicators for Global Aviation Training Organizations (Kwang Eui Yoo, Korea Aerospace University; Yong-Ki Yi, Korea Aerospace University) |
| | | 178 | Measuring the Competitiveness of Canadian National Airports under Various Regulatory and Ownership Structures: A Scenario Analysis Approach (Isabelle Dostaler, Concordia University; Shannon Lloyd, Concordia University; Aaron L. Nsakanda, Carleton University; Ritu Raj Kaur Virk, Concordia University) |
| | | 231 | Air Transport Liberalization Readiness: A Theoretical Framework to Foster Implementation and its Application to Developing Markets (Jonathan Steinbach, Zeppelin University Friedrichshafen) |
| | | 234 | Consumer Protection Measures in the Airline Industry: From Regulation and Litigation to 'Core Principles' (Steven Truxal, City, University of London) |
| 13:30-14:45 | 5-C | | Airline Network Development 1 |
| | <i>Room: B.003</i> | Chair: | William Morrison, Wilfrid Laurier University |
| | | 45 | UK Regional Connectivity on the North Atlantic: Hub-Bypassing or Just Changing Hubs? (Frances Kremarik, University of Westminster; Nigel Dennis, University of Westminster; Anne Graham, University of Westminster) |
| | | 225 | Measuring the Airlines Networks (Chantal Roucolle, Ecole National de l'Aviation Civile; Chantal Roucolle, ENAC/DEVI; Miguel Urdanoz, TBS; Tatiana Seregina, ENAC/TBS) |
| | | 366 | Price Competition of Airports in Transit Markets and its Effect on the Airline's Network (Yusuke Teraji, Tezukayama University) |
| 13:30-14:45 | 5-D | | Airport and Airline Performance 3 |
| | <i>Room: B.004</i> | Chair: | Florian Heinitz, Erfurt University of Applied Sciences |
| | | 53 | World Cities in Air Transport Systems (Hidenobu Matsumoto, Kobe University; Koji Domaie, Kobe University) |
| | | 147 | An Analysis of Airport Efficiency in Japan: The Impact of domestic Low-Cost Carriers Entry (Koji Adachi, Kobe University; Kenichi Shoji, Kobe University) |
| | | 249 | Cost Performance of Transport Infrastructure Projects before and after the 2008 Global Financial Crisis: Has the Crisis Affected the Conditions of Project Performance? (Eleni Moschouli, University of Antwerp; Raden Murwantara, University of Antwerp; Thierry Vanelslander, University of Antwerp; Koen Verhoest, University of Antwerp) |
| 13:30-14:45 | 5-E | | Airport Strategy, Management and Operations 3 |
| | <i>Room: C.002</i> | Chair: | Frankie O'Connell, Cranfield University |
| | | 89 | Using Ambient Scent in Airport Security Screening and the Effect on Shopping Mood (Patrick Bohl, Corvinus University of Budapest; Halil Yildirim, Corvinus University of Budapest) |

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| | | 114 An Investigation into Airline Ancillary Service Purchase Intentions (Steven Leon, Appalachian State University; Nizam Uddin, University of Central Florida) |
| | | 347 The Strategic Role of Smaller Airports in the UK (Christopher Cain, Northpoint Aviation Services Limited; Basil O'Fee, Northpoint Aviation Services) |
| | | 135 Commercial Revenues: An Analysis of Parking Provision at Large European Airports (Mark Friesen, QUINTA Consulting; Wilfred Sebastian Manuela Jr., Asian Institute of Management) |
| 13:30-14:45 | 5-F | Human Resources Management in Air Transport |
| <i>Room: C.101</i> | Chair: | Christian Bontemps, ENAC |
| | 11 | How Job Demands and Job Resources Affect Maintenance Crew's Job Passion (Shu-Chuan Chen, Aletheia University) |
| | 24 | The Airlines Possible Actions in Resolving Flight Attendants Job Burnout (Whei-Li Lu, Chinese Culture University) |
| | 166 | Impact of Automation on Capacity of the Air Traffic Control System Capacity (Zoran Jaksic, Croatia ATC Control Ltd., Zagreb, Croatia; Doris Novak, University of Zagreb; Milan Janic, Delft University of Technology) |
| | 230 | Patterns of Correlation between Aviation, Education, and Economic Activity in Developing Economies (Wali Mughni, Aviation Institute of Management) |
| 13:30-14:45 | 5-G | Aviation Case Studies 1 |
| <i>Room: C.102</i> | Chair: | Hans-Martin Niemeier, University of Applied Sciences Bremen |
| | 121 | Measuring and Evaluating on Service Range of International Aviation Routes between Off-Shore-Island Holiday Airports and Main City Airports (Suiling Li, National Penghu University of Science and Technology) |
| | 303 | Changing Governance and Regulation of Airports - A Comparison of Austria, Denmark, France, Italy, Hungary, Portugal and Spain (Hans-Martin Niemeier, University of Applied Sciences Bremen; Peter Forsyth, Monash University; Juergen Mueller, Berlin School of Economics) |
| | 338 | Analysis of Changes in Travel Behavior with the Hokkaido Shinkansen Opening and the Influence on Aviation Market (Kosuke Koike, Kanazawa University; Fujii Makoto, Kanazawa University; Shoichiro Nakayama, Kanazawa University; Jun-ichi Takayama, Kanazawa University) |
| | 342 | Characteristics of Air Passenger Behavior Changes due to Runway Closure of Haneda Airport Caused by KAL 2708 Engine Fire Incident (Kota Miyauchi, Tokyo Denki University; Kazuyuki Takada, Tokyo Denki University; Makoto Fujii, Kanazawa University; Takahiro Murano, Tokyo Denki University) |

14:45-15:00

Break

Concurrent Session VI (Friday, July 7, 15:00-16:15)

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| 15:00-16:15 | 6-A | Air Transport Demand 2 |
| <i>Room: B.001</i> | Chair: | Martin Dresner, University of Maryland |
| | 83 | A Gravity Model for Estimating Passenger Origin-Destination Flows between Countries Worldwide (Marc Gelhausen, German Aerospace Center (DLR); Peter Berster, German Aerospace Center (DLR)) |
| | 182 | Factors Influencing European Passenger Demand for Air Transport (Ulrike Kluge, Bauhaus Luftfahrt e.V.; Annika Paul, Bauhaus Luftfahrt e.V.; Andrew Cook, University of Westminster; Samuel Cristobal, Innaxis Research Institute) |

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| | | 117 | The Impact of Outsourcing Regional Flights on Network Airlines' Demand (Martin Dresner, University of Maryland; Zuozheng Wang, University of Maryland) |
| 15:00-16:15 | 6-B | | Air Transport Policy & Regulation 5 |
| | <i>Room: B.002</i> | Chair: | Tobias Grosche, Worms University of Applied Sciences |
| | | 242 | Avoiding Regulatory Capture (Cathal Guiomard, Dublin City University Business School) |
| | | 315 | The Environmental Costs of Peru's Domestic Air Transport: An Appraisal (Enzo Defilippi, Universidad del Pacifico) |
| | | 98 | Consumer Surplus Analysis of Air Transport to and from Germany (Tobias Grosche, Worms University of Applied Sciences; Richard Klophaus, Worms University of Applied Sciences) |
| 15:00-16:15 | 6-C | | Airline Network Development 2 |
| | <i>Room: B.003</i> | Chair: | Richard Klophaus, Worms University of Applied Sciences |
| | | 54 | Air Transport Geography in East Asia (Koji Domae, Kobe University; Hidenobu Matsumoto, Kobe University) |
| | | 137 | Manage with Care: The Frailty of Self-Connections in the European Airport Network (Renato Redondi, University of Bergamo; Paolo Malighetti, University of Bergamo; Mattia Cattaneo, University of Bergamo; Stefano Paleari, University of Bergamo) |
| | | 72 | Network Vulnerability Analysis of Star Alliance, Oneworld and Skyteam (Richard Klophaus, Worms University of Applied Sciences; Oriol Lordan, Polytechnic University of Catalonia/BarcelonaTech (UPC)) |
| 15:00-16:15 | 6-D | | Airport and Airline Performance 4 |
| | <i>Room: B.004</i> | Chair: | Tae Oum, University of British Columbia |
| | | 92 | Estimation Viability of French Airports and Low-Cost Carriers Terminal in France (Seock-Jin Hong, University of North Texas; Minjun Jeon, University of North Texas) |
| | | 290 | Airport Competitiveness with Respect to Air Freight: A Typology (Thomas Van Asch, University of Antwerp; Wouter Dewulf, University of Antwerp; Franziska Kupfer, University of Antwerp; Evy Onghena, University of Antwerp) |
| | | 304 | The Airport Benchmarking Issues: The Key Performance Area of Safety (Paulo Marchao, University of Beira Interior; Maria E. Baltazar, University of Beira Interior; Tiago Rosa, University of Beira Interior; Jorge Silva, University of Beira Interior/University of Lisbon) |
| | | 371 | The Effects of Airline Competition and Market Structure on Airport Efficiency (Tae Oum, University of British Columbia; Xiaowen Fu, University of Sydney) |
| 15:00-16:15 | 6-E | | Airport Case Studies 1 |
| | <i>Room: C.002</i> | Chair: | Perry Miller, Jackson Municipal Airport Authority |
| | | 309 | Passengers with Reduced Mobility: Identifying Needs and Experiences at Airports (Genovefa Kefalidou, University of Nottingham; Sonja Loewa, Hamburg University of Technology (TUHH); Mantel Rebekka, Hamburg University of Technology (TUHH); Nikos Frangakis, Institute of Communication and Computer Systems (ICCS); Christine de Lille, Delft University of Technology; Mirabelle D'Cruz, University of Nottingham; Sarah Sharples, University of Nottingham) |
| | | 344 | Market Power at Seattle-Tacoma Airport: The Case of Alaska Airlines and Delta Air Lines (Tamilla Curtis, Embry-Riddle Aeronautical University; Wilfred Sebastian Manuela Jr., Asian Institute of Management; Dawna L. Rhoades, Embry-Riddle Aeronautical University) |
| | | 363 | Modeling Travelers' Ground Access Mode Choice of Dubai International Airport, United Arab Emirates (Khaula Alkaabi, United Arab Emirates University) |

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|-------------|-------------|--------|--|
| | | 224 | Cooperation between Airports: A Social Network Analysis of European Airports (Katrien De Langhe, University of Antwerp; Katja Bringmann, University of Antwerp; Franziska Kupfer, University of Antwerp; Christa Sys, University of Antwerp; Eddy Van de Voorde, University of Antwerp; Thierry Vanelslander, University of Antwerp) |
| 15:00-16:15 | 6-F | | Airport Strategy, Management and Operations 4 |
| | Room: C.101 | Chair: | Chunyan Yu, Embry-Riddle Aeronautical University |
| | | 189 | Factors Behind Airport Direct Connections (Jinn-Tsai Wong, National Chiao Tung University; Wei-Hsun Chen, National Chiao Tung University; Yu-Chen Wang, National Chiao Tung University) |
| | | 226 | The Impact of LCC on Airport Non-Aeronautical Activities such as Retail, Car Parking and Property: An Empirical Study in the UK (Muneki Yokomi, Osaka University of Commerce) |
| | | 288 | Standard Numbering System for Airport Projects: Issues and Needs towards Smart Airport Construction Management (Youngsoo Jung, Myongji University; Seunghee Kang, Myongji University; Sungrae Kim, Myongji University; Ikhaeng Lee, Myongji University; Namhyun Cho, Incheon International Airport Corporation; Changweon Lee, Incheon International Airport Corporation; Justin S. Jung, Embry-Riddle Aeronautical University (Admitted)) |
| | | 278 | Taxi-Delays: A Comparison Between the United States and Europe (Nathalie Kuhn, Embry-Riddle Aeronautical University; Chunyan Yu, Embry-Riddle Aeronautical University) |
| 15:00-16:15 | 6-G | | Market Outlook and Future Development of Air Transport |
| | Room: C.102 | Chair: | Hilde Meersman, University of Antwerp |
| | | 52 | On the Income Elasticity of Passenger Demand for Chinese Regional Airports: Before and After Location Reform (Jinmei Ge, China Academy of Civil Aviation Science and Technology; Jinjin Yao, China Academy of Civil Aviation Science and Technology; Xianfeng Qi, China Academy of Civil Aviation Science and Technology) |
| | | 22 | Benefits of Deploying a Fully Functional ADS-B Network in Northern Canada and Pacific (Sidharth Ahuja, University of Calgary; Alexandre de Barros, University of Calgary) |
| | | 158 | Potential of Aircraft On-Demand Sharing Model for Large Commercial Aircraft (Kay Olaf Ploetner, Bauhaus Luftfahrt e.V.; Marcia Urban, Bauhaus Luftfahrt e.V.; Mirko Hornung, Bauhaus Luftfahrt e.V.) |
| | | 186 | Connected Grid Flight Network Modelling within the Scope of Demand Optimization in a National and International Scale: The Case of Eskişehir Hasan Polatkan Airport (Triant Flouris, Hellenic American University; Ayse Kucuk-Yilmaz, Anadolu University) |
| 16:15-16:45 | | | Coffee break |

Concurrent Session VII (Friday, July 7, 16:45-18:00)

| | | | |
|-------------|-------------|--------|---|
| 16:45-18:00 | 7-A | | Airport Case Studies 2 |
| | Room: B.001 | Chair: | Andreas Wittmer, University of St. Gallen |
| | | 25 | Analysis of Influences on Check-in Waiting Times at Hamburg Airport (Peter Biesslich, German Aerospace Center (DLR); Bjoern Schwetge, Hamburg University of Technology (TUHH); Kathrin Beyer, Hamburg Airport; Klaus Luetjens, German Aerospace Center (DLR)) |
| | | 181 | Airport Privatization Challenges in the MENA Region - Case Study PMIA in the Kingdom of Saudi Arabia (Mohammed Chaouk, Cranfield University; Chikage Miyoshi, Cranfield University; Romano Pagliari, Cranfield University) |

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|-------------|-------------|--------|--|
| | | 198 | Airlines Strategies with the Arrival of Istanbul New Airport (Ozge Peksatici, Ozyegin University; Hatice Kucukonal, Ozyegin University) |
| | | 8 | A Model for Measuring Airport Competitiveness: The Case of Zurich Airport (Andreas Wittmer, University of St. Gallen; Bettino Fletscher, University of St. Gallen; Erik Linden, University of St. Gallen) |
| 16:45-18:00 | 7-B | | Aviation & Economic Development 1 |
| | Room: B.002 | Chair: | Nicole Adler, Hebrew University of Jerusalem |
| | | 285 | Panel Data Analysis of Air Cargo Traffic in European Regional Airports (Pak Lam Lo, University of Pavia; Gianmaria Martini, University of Bergamo; Davide Scotti, University of Bergamo; Eric Njoya, University of Huddersfield; Marina Efthymiou, Dublin City University) |
| | | 43 | Backward Linkage of Air Transport Sector in ASEAN Countries: Prospect of Economic Impacts by ASEAN Single Aviation Market (Tomoki Ishikura, Tokyo Metropolitan University) |
| | | 101 | Landing an Airport: Dealing with a Frontier Area (Marielle Prins, Prins Development Consultants) |
| | | 367 | Air Transport & Regional Development: The Case of South West Europe (Susana Freiria, Universidade de Coimbra; Nicole Adler, Hebrew University of Jerusalem; Antonio Antunes, University of Coimbra) |
| 16:45-18:00 | 7-C | | Aviation Case Studies 2 |
| | Room: B.003 | Chair: | Seock-Jin Hong, University of North Texas |
| | | 103 | Access Mode Choice to Low-Cost Airports: The Case of Orio al Serio Airport (Sebastian Birolini, University of Bergamo; Renato Redondi, University of Bergamo; Paolo Malighetti, University of Bergamo; Paolo De Forza, SACBO S.p.A.) |
| | | 163 | Modeling Airport Choice with the Use of AHP and MILP (Simona Sinko, University of Maribor; Gregor Sipek, University of Maribor; Tomaz Kramberger, University of Maribor) |
| | | 272 | Social Network Analysis in Asia-Pacific Airline Market: A Case of the Air Asia Group and the Value Alliance (Katsuhiko Yonezaki, Institute of Transportation Economics Japan; Akeyoshi Matsuzaki, Institute of Transportation Economics Japan) |
| | | 271 | The Impact of Delays on Customers Satisfaction: An Empirical Analysis of the British Airways On-Time Performance at Heathrow Airport (Marina Efthymiou, Dublin City University; Papatheodorou Andreas, University of Aegean; Eric Njoya, University of Huddersfield; Pak Lam Lo, University of Pavia; Daniel Randall) |
| 16:45-18:00 | 7-D | | Aviation Safety & Security 2 |
| | Room: B.004 | Chair: | Alexandre de Barros, University of Calgary |
| | | 5 | Drones and the Necessity for Enacting a Proportionate Rules (Milad Sadeghi, University of Tehran; Farhad Azimi, Islamic Azad University, Meshkinshahr Branch) |
| | | 87 | The Gaps between Work Procedures and How Work is Performed in Reality as an Indicator for Safety (Steffen Kaspers, Amsterdam University of Applied Sciences; Nektarios Karanikas, Amsterdam University of Applied Sciences; Alfred Roelen, Netherlands Aerospace Centre; Selma Piric, Amsterdam University of Applied Sciences; Robbert Van Aalst, Amsterdam University of Applied Sciences; Robert Jan De Boer, Amsterdam University of Applied Sciences) |
| | | 196 | The Cabin Crew Pre-flight Briefing (Joanne Freeman, Cranfield University; Saryani Asmayawati, Cranfield University) |
| 16:45-18:00 | 7-E | | Intermodal and Air Travel Alternatives 2 |
| | Room: C.002 | Chair: | Michael Williams, Embry-Riddle Aeronautical University |
| | | 155 | Analysis of European Airports Access and Egress TravelTimes (Raoul Rothfeld, Bauhaus Luftfahrt e.V.; Anna Straubinger, Bauhaus Luftfahrt e.V.; Annika Paul, Bauhaus Luftfahrt e.V.; Kay Olaf Ploetner, Bauhaus Luftfahrt e.V.) |

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|-------------|-----|--|---|
| | | 372 | Potential High Speed Rail Competition in Australia (Sergej Bukovac, University of New South Wales) |
| | | 364 | Airport Rail Links - How North America Match to Europe and Asia in Capacity and Efficiency (Michael Williams, Embry-Riddle Aeronautical University) |
| 16:45-18:00 | 7-F | Low-Cost Carriers 1 | |
| Room: C.101 | | Chair: | Li Zou, Embry-Riddle Aeronautical University |
| | | 161 | The Market Impacts of Self-Connect and Low-Cost Connect Using a Generalized Travel Cost Approach (Renato Redondi, University of Bergamo; Paolo Malighetti, University of Bergamo; Guillaume Burghouwt, SEO Amsterdam Economics; Rogier Lieshout, SEO Amsterdam Economics) |
| | | 284 | A Study on the Strategies of Full Service Airlines Competing with Low-Cost Carriers in Taiwan Market (Ching-Yi Yu, Kainan University; Chiu-Hua Chang, Kainan University) |
| | | 287 | Passengers' Perceptions and Satisfaction towards Service Quality of Full-service Carrier of a Low-Cost-Carrier Airlines Group (Teguh I. Maulana, University of Indonesia; Taufiq Nur, University of Indonesia; Alvi Muhayat Syah, University of Indonesia) |
| | | 348 | The Determinant of Market Entry: A Comparative Study of Low-cost Airlines in the US (Li Zou, Embry-Riddle Aeronautical University; Chunyan Yu, Embry-Riddle Aeronautical University) |
| 16:45-18:00 | 7-G | Operations Research in Air Transport 2 | |
| Room: C.102 | | Chair: | Sung-Yeoul Oh, The Korea Transport Institute |
| | | 58 | Europe's Next Step in Total Airport Management Research (Florian Piekert, German Aerospace Center (DLR); Olivier Delain, Aeroporte de Paris; Ester Martín, INECO; Alan Marsden, EUROCONTROL) |
| | | 192 | A New Framework for Optimizing Flight-to-Gate Reassignment at Airports in Cases of Schedule Disruptions (Moschoula Pternea, University of Maryland; Ali Haghani, University of Maryland) |
| | | 251 | Cascading Failures in Air Transport Networks (Jose M Sallan, Polytechnic University of Catalonia; Joel Cumelles, Polytechnic University of Catalonia; Oriol Lordan, Polytechnic University of Catalonia) |
| | | 70 | Structural Equivalence Analysis on the Latin America Airports Network (Sung-Yeoul Oh, The Korea Transport Institute) |
| 19:00-... | | Galadinner (ZOO Antwerp) | |
| | | Keynote speech by Kris Peeters, Deputy prime minister and minister of employment, economy and consumer affairs, in charge of foreign trade | |

Saturday, 8 July

Concurrent Session VIII (Saturday, July 8, 9:00-10:15)

| | | |
|--------------------|--------|--|
| 9:00-10:15 | 8-A | Air Traffic Control 1 |
| <i>Room: B.001</i> | Chair: | Frank Fichert, Worms University of Applied Sciences |
| | 65 | Air Navigation Services: A Market Structure Analysis (Sven Buyle, University of Antwerp; Evy Onghena, University of Antwerp; Wouter Dewulf, University of Antwerp; Franziska Kupfer, University of Antwerp) |
| | 143 | Measuring Cost and Production Functions in Air Navigation Service Provision - A European Perspective (Nicole Adler, Hebrew University of Jerusalem; Thomas Blondiau, Transport & Mobility Leuven; Eef Delhaye, Transport & Mobility Leuven; Adit Kivel, Hebrew University of Jerusalem) |
| | 243 | Introducing More Competition into ATM: Possible Institutional Designs - Qualitative Assessment (Eef Delhaye, Transport & Mobility Leuven; Thomas Blondiau, Transport & Mobility Leuven) |
| | 91 | Improving ATM Performance in Europe by Coordinated Capacity Ordering and Trajectory Pricing: An Institutional Framework (Frank Fichert, Worms University of Applied Sciences; Radosav Jovanovic, University of Belgrade; Nikola Ivanov, University of Belgrade; Arne Strauss, University of Warwick; Stefano Starita, University of Warwick) |
| 9:00-10:15 | 8-B | Aviation & Economic Development 2 |
| <i>Room: B.002</i> | Chair: | Kazuyuki Takada, Tokyo Denki University |
| | 13 | Economic Importance of Air Transport and Airport Activities in Belgium (Saskia Vennix, National Bank of Belgium) |
| | 41 | Well-being and Airport Activities: The Empirical Analysis of Australia and New Zealand (Kan Wai Hong Tsui, Massey University; Xiaowen Fu, University of Sydney; David Tan, University of New South Wales; Breno Sampaio, Federal University of Pernambuco) |
| | 292 | Gross Value Added for Tourist Regional Airports (Maria Sartzetaki, Democritus University of Thrace; Dimitrios Dimitriou, Democritus University of Thrace) |
| | 331 | The Role of Airports for Regional Economic Development: Evidence from Poland (Andrzej Cieslik, University of Warsaw) |
| 9:00-10:15 | 8-C | Aviation Safety & Security 3 |
| <i>Room: B.003</i> | Chair: | Cathal Guimard, Dublin City University Business School |
| | 244 | Cyber-Threat Analysis of a UAV Traffic Management System for Urban Airspace (Vasily Sidorov, Nanyang Technological University; Wee Keong Ng, Nanyang Technological University; Kwok Yan Lam, Nanyang Technological University; Mohamed Faisal Bin Mohamed Salleh, Air Traffic Management Research Institute) |
| | 265 | Development of a Statistical Model to Predict Australian Flight Students' Valuation of Aviation Safety (Steven Leib, University of South Australia; Nickolai Isaksen, University of South Australia; Michael Chiu, University of South Australia) |
| | 266 | Simulation of Airport Evacuation Strategies for Passengers with Reduced Mobility (Claudia Guerrinha, University of Beira Interior; Sara Zorro, CERIS, University of Beira Interior; Jorge Silva, University of Beira Interior) |
| 9:00-10:15 | 8-D | Low-Cost Carriers 2 |
| <i>Room: B.004</i> | Chair: | Dieter Wilken, German Aerospace Center (DLR) |
| | 15 | Air-Rail Cooperation and Multiple-Airports System: The Case of HSR Ticket Reimbursement (Wenyi Xia, University of British Columbia; Anming Zhang, University of British Columbia; Kun Wang, University of British Columbia; Changmin Jiang, University of Manitoba) |

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| | | 187 | Do Low-Cost Carriers Still Focus Their Business at Secondary Airports? (Wai Hung Wong, Hang Seng Management College; Tommy Cheung, Hang Seng Management College; Anming Zhang, University of British Columbia; Jeremy Chu, Hang Seng Management College) |
| | | 42 | Passengers' Perceptions and Choice Behavior of National, Low-cost and Foreign Airlines: Case Study on Incheon International Airport (HyeKyung Ha, Korea Aerospace University; Baek-Jae Kim, Qatar Airways; Kwang-Eui Yoo, Korea Aerospace University; Se-Yeon Jung, The Korea Transport Institute) |
| | | 88 | The Second Wave of Network Extensions of Low Cost Carriers in Europe: Background and Trends (Dieter Wilken, German Aerospace Center (DLR); Peter Berster, German Aerospace Center (DLR); Marc C. Gelhausen, German Aerospace Center (DLR)) |
| 9:00-10:15 | 8-E | | Marketing in Air Transport |
| | <i>Room: C.002</i> | Chair: | Blaise Waguespack, Embry-Riddle Aeronautical University |
| | | 82 | Passengers' Willingness to Pay for Ancillary Services in the Context of Cabin Automation (Romain Fagoaga, Cranfield University; Chikage Miyoshi, Cranfield University; Berkcan Uyan, Cranfield University) |
| | | 261 | Loyalty (Programs) Across Borders: A Boundary Discontinuity Approach (Gerben de Jong, Vrije Universiteit Amsterdam; Christiaan Behrens, Vrije Universiteit Amsterdam; Jos van Ommeren, Vrije Universiteit Amsterdam) |
| | | 341 | Airline Sponsorships and Sports - An Exploratory Review of Major Airline Engagement (Blaise Waguespack, Embry-Riddle Aeronautical University; Scott Ambrose, Embry-Riddle Aeronautical University) |
| 9:00-10:15 | 8-F | | Operations Research in Air Transport 3 |
| | <i>Room: C.101</i> | Chair: | Guillaume Burghouwt, SEO Amsterdam Economics |
| | | 64 | An Inspection Intervals Usage Parameters Based Dynamic Programming Approach for Aircraft C-Check Scheduling (Qichen Deng, Delft University of Technology; Bruno Santos, Delft University of Technology; Richard Curran, Delft University of Technology) |
| | | 365 | An Integrated Model for Flight Frequency Determination, Fleet Assignment and Aircraft Routing (Ali Ghafoori, Sharif University of Technology; Yousef Shafahi, Sharif University of Technology) |
| | | 221 | Global Developments in the Level of Airline Timetable Synchronization (Valentijn Van Spijker, SEO Amsterdam Economics; Guillaume Burghouwt, SEO Amsterdam Economics) |
| 9:00-10:15 | 8-G | | Revenue Management & Pricing 1 |
| | <i>Room: C.102</i> | Chair: | Christiaan Behrens, Vrije Universiteit Amsterdam |
| | | 248 | Modelling the Pass-Through of Airline Operating Costs on Average Fares in the Global Aviation Market (Bojun Wang, University College London (UCL); Aidan O'Sullivan, University College London (UCL); Lynnette Dray, University College London (UCL); Kinan Al Zayat, University College London (UCL); Andreas Schafer, University College London (UCL)) |
| | | 257 | Fare Differences between the Gulf Carriers and Incumbents: Are the Incumbents Closing the Price Gap? (Rogier Lieshout, SEO Amsterdam Economics; Rogier Lieshout, SEO Amsterdam Economics) |
| | | 358 | From flight providers to retailers: Dynamic Offer Management in airline distribution (Sebastian Stabenow, University of Antwerp; Sascha Albers, University of Antwerp; Jost Daft, Deutsche Lufthansa AG) |
| | | 36 | From Silver to Platinum: The Impact of Frequent-Flier Tier Levels on Demand (Christiaan Behrens, SEO Amsterdam Economics/VU University; Jos van Ommeren, VU University) |
| 10:15-10:45 | | | Coffee break |

Concurrent Session IX (Saturday, July 8, 10:45-12:00)

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| 10:45-12:00 | 9-A | Air Traffic Control 2 |
| <i>Room: B.001</i> | Chair: | Christian Hofer, University of Arkansas |
| | 37 | Generating Simplified Airspace Structures by Developing Efficient Methodologies (Michael Husemann, RWTH Aachen University; Eike Stumpf, RWTH Aachen University) |
| | 74 | Studies of Flight Optimization and Air Traffic Controllers' Workloads (Z.W. Zhong, Nanyang Technological University; W.Y. Sun, Nanyang Technological University; W.C.W. Ong, Nanyang Technological University) |
| | 277 | A Yield Management Policy to Reduce European Air Traffic Congestion (Lorenzo Castelli, University of Trieste; Tatjana Bolic, University of Trieste; Desiree Rigonat, University of Trieste; Efrem Venturuzzo, University of Trieste) |
| | 286 | Patterns of ATC Capacity Insufficiencies in Europe: An Exploratory Analysis (Radosav Jovanovic, University of Belgrade; Nikola Ivanov, University of Belgrade; Frank Fichert, Worms University of Applied Sciences; Arne Strauss, University of Warwick; Stefano Starita, University of Warwick) |
| 10:45-12:00 | 9-B | Aviation & Economic Development 3 |
| <i>Room: B.002</i> | Chair: | Álvaro Costa, University of Porto |
| | 136 | ASEAN Aviation Integration: Opportunities and Challenges (John F. O'Connell, Cranfield University; Wilfred Sebastian Manuela Jr., Asian Institute of Management) |
| | 275 | Development of the Propensity to Fly by Age, Sex and Purpose at Schiphol Airport between 1991 and 2016 (Hugo Gordijn, KiM Institute for Transport Policy Analysis) |
| | 298 | Economic Impact of the Deregulation of Air Transport in Azores (Álvaro Costa, University of Porto; Carlos Cruz, University of Lisbon; Joao Cabral, University of the Azores) |
| | 241 | Analysis of Airport Service Level Nearby the Cruise Port (Koji Matsuta, Kanazawa University; Makoto Fujiu, Kanazawa University; Junichi Takayama, Kanazawa University; Shoichiro Nakayama, Kanazawa University) |
| 10:45-12:00 | 9-C | Aviation Case Studies 3 |
| <i>Room: B.003</i> | Chair: | Franziska Kupfer, University of Antwerp |
| | 6 | A Study on Influential Factors of Aircraft Rent Fluctuations (Wei-Ting Chen, Institute for Information Industry) |
| | 84 | Flights in Japan: Willingness to Pay for Ancillary Service Related to Cabin Design (Berkcan Uyan, Cranfield University; Chikage Miyoshi, Cranfield University) |
| | 93 | Empirical Study of Per-Passenger and Per-Flight Airport Charges (Naoshi Doi, Sapporo Gakuin University) |
| 10:45-12:00 | 9-D | Aviation Finance |
| <i>Room: B.004</i> | Chair: | Sunder Raghavan, Embry-Riddle Aeronautical University |
| | 236 | A Comparative Analysis of Operating Cost between Future Jet Engine and Battery-Electric Aircraft (Mohamad Kinan Al Zayat, University College London; Andreas Schafer, University College London) |
| | 370 | A Short Update on the Financial Health of the U.S. Airlines (Richard Gritta, University of Portland) |
| | 307 | Corporate Governance in US Airlines: Before and after Sarbanes Oxley Act (Hari Adhikari, Embry-Riddle Aeronautical University; Vedapuri Raghavan, Embry Riddle Aeronautical University) |
| | 350 | Modeling Uncertainty in an Aircraft Lease (Sunder Raghavan, Embry-Riddle Aeronautical University; Jayathi Raghavan, Embry-Riddle Aeronautical University) |

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|----------------------------|-----|---|
| 10:45-12:00 Room: C.002 | 9-E | Mergers and Alliances in Air Transport Chair: Deborah Ancell, University of Westminster 27 Airline Code-Sharing and Capacity Utilization: To What Extent Do Airlines Help Fill Each Other's Planes? (Javad Gorjidoz, Embry-Riddle Aeronautical University; Jules Yimga, Embry-Riddle Aeronautical University) 30 A Comparative Analysis of Price Effects of Two Airline Mergers in China (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) 68 What Drives Airlines to Make a Cross-Border Investment? - Firm-Level Factors and Institutional Factors (Nobuaki Endo, Tokyo University of Marine Science and Technology; Toshiya Ozaki, Rikkyo University) 113 Airline Mergers and Consolidation: The Impact on Hubs, Airline Networks and Travelers in the US and the UK (Nigel Dennis, University of Westminster; David Pitfield, Loughborough University/University of Westminster) |
| 10:45-12:00 Room: C.101 | 9-F | Operations Research in Air Transport 4 Chair: Florian Piekert, German Aerospace Center (DLR) 233 An Optimization Approach for Airport Slot Allocation Under IATA Guidelines (Antunes Ribeiro Nuno, University of Coimbra; Alexandre Jacquillat, Carnegie Mellon; Joao Pita, University of Coimbra; Antonio Antunes, University of Coimbra; Amedeo R. Odoni, Massachusetts Institute of Technology) 300 Interdependence and Integration among Components of the Airline Scheduling Process: A State-of-the-Art Review (Divyam Aggarwal, Indian Institute of Technology Roorkee; Dhish Kumar Saxena, Indian Institute of Technology Roorkee; Michael Emmerich, Leiden University) 302 Arriving Flow Management in a 4D Environment Using Greedy Algorithm Regarding Airline Business Model and Airport Concentration (Daniel Alberto Pamplona, Aeronautical Institute of Technology; João Luiz de Castro Fortes, Aeronautical Institute of Technology; Vitor Filincowsky Ribeiro, University of Brasilia; Li Weigang, University of Brasilia; Claudio Jorge Pinto Alves, Aeronautical Institute of Technology) |
| 10:45-12:00 Room: C.102 | 9-G | Revenue Management & Pricing 2 Chair: Rico Merkert, University of Sydney 316 Revenue Potential of Flexible Cabin Elements for Airlines under Consideration of Revenue Management and Operations (Klaus Luetjens, German Aerospace Center (DLR); Alexander Happe, Hamburg University of Applied Sciences) 369 Dynamic Booking Forecasting for Airline Revenue Management (Thom van Ostaijen, Delft University of Technology; Bruno Santos, Delft University of Technology; Mihaela Mitici, Delft University of Technology) 148 How to Manage Seasonality in Service Industries? - The Case of Price and Capacity Management in Airlines (Rico Merkert, University of Sydney; Tony Webber, University of Sydney) |
| 12:00-13:00 Room: C.003 | | ATRS General Assembly |
| 14:00-16:00 | | OptionalexursiontoDiamondLand |

Conference Excursions

Technical Tour to Brussels Airport

Date **Wednesday, 5 July**

Time **14:00 - 17:00**

Meeting place **FelixArchief, Oude Leeuwenrui 29**

Registration required

Transport from the University of Antwerp to Brussels Airport by bus provided.



www.brusselsairport.be/en



Technical Tour to Antwerp Airport

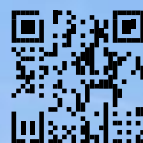
Date **Wednesday, 5 July**

Time **14:00 - 17:00**

Meeting place **FelixArchief, Oude Leeuwenrui 29**

Registration required

Transport from the University of Antwerp to Antwerp Airport by bus provided.



www.antwerp-airport.be



After Conference Excursion to DiamondLand in the Jewish Quarter

Date **Saturday, 8 July**

Time **14:00 - 16:00**

Meeting place **Registration desk ATRS**

Learn more about the rich history of diamonds and Antwerp and watch a live demonstration of diamond polishing.

In the heart of the famous diamond district, at a walking distance from the renowned Diamond Bourse, lies the largest diamond showroom in Antwerp: DiamondLand.

In more than a thousand square meters of space, the expert guides of DiamondLand will tell you about the rich history of Antwerp and the relationship it had with diamonds for more than 400 years. You will see their diamond polishers and goldsmiths at work right in front of you and see legendary diamonds and learn about diamond valuation, also known as the 4 C's.

Once you have a good knowledge about diamonds you will see the world's most fascinating diamond rings, diamond necklaces, diamond bracelets, diamond pendants and a large collection of rough and polished unset diamonds in all shapes and sizes.



www.diamondland.be



Reception and Gala Dinner

Reception

Date **Wednesday, 5 July**

Time **18:30 - 20:30**

Venue **FelixArchief, Oude Leeuwenrui 29 - Godefriduskaai 30**

Not far from the university lays Het Eilandje, a vibrant part of the city surrounded by old docks and warehouses. One of the largest former warehouses is The Felix build for the Compagnie Générale de Chemin de Fer. It was used for the storage of coffee, cereals, cheese, wine and tobacco. In 1985 the building came out of use. After decades of vacancy, The Felix was saved from demolition because of its majestic indoor street that connects Het Eilandje with the historic city. Today it is the home of the City Archive.

Gala Dinner

Date **Friday, 7 July**

Time **19:00 - ...**

Venue **Marble Hall, ZOO Antwerp, Koningin Astridplein 20-26**

Registration Required

In the heart of Antwerp you will find one of the most interesting attractions Antwerp has to offer: Antwerp Zoo. It is the oldest animal park in the country, and one of the oldest in the world, established on 21 July 1843. The Zoo has grown from 1 hectare to a spectacular place to visit of about 11 hectares. To see all the animals in one visit is really a challenge. Together with its sister park Planckendael,

Antwerp Zoo houses over 7,000 animals of about 950 species.






The gala dinner will be held in the Marble Hall, the historical heart of the meeting complex of the Antwerp Zoo: a splendid space dominated by 20 impressive marble columns that rest upon bronze socles and prop up a high ceiling of pure Art Nouveau style. The

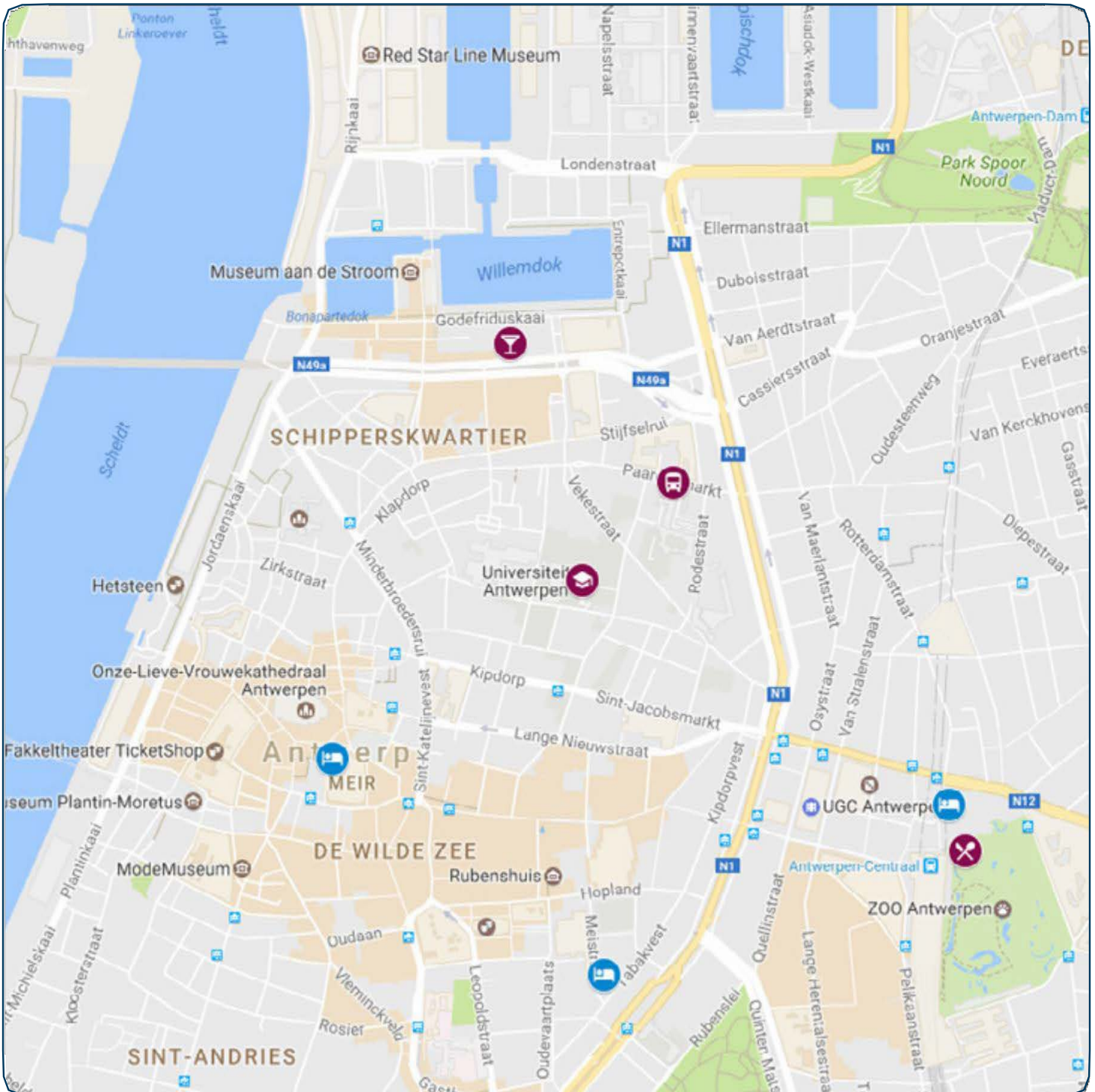
Belle Époque atmosphere still lingers here. The Winter Garden, a late 19th-century architectural highlight where you can see hundreds of butterflies flutter during the spring and summer seasons, will also be exclusively open for the conference delegates during dinner.





ATRS 2017 Location Map

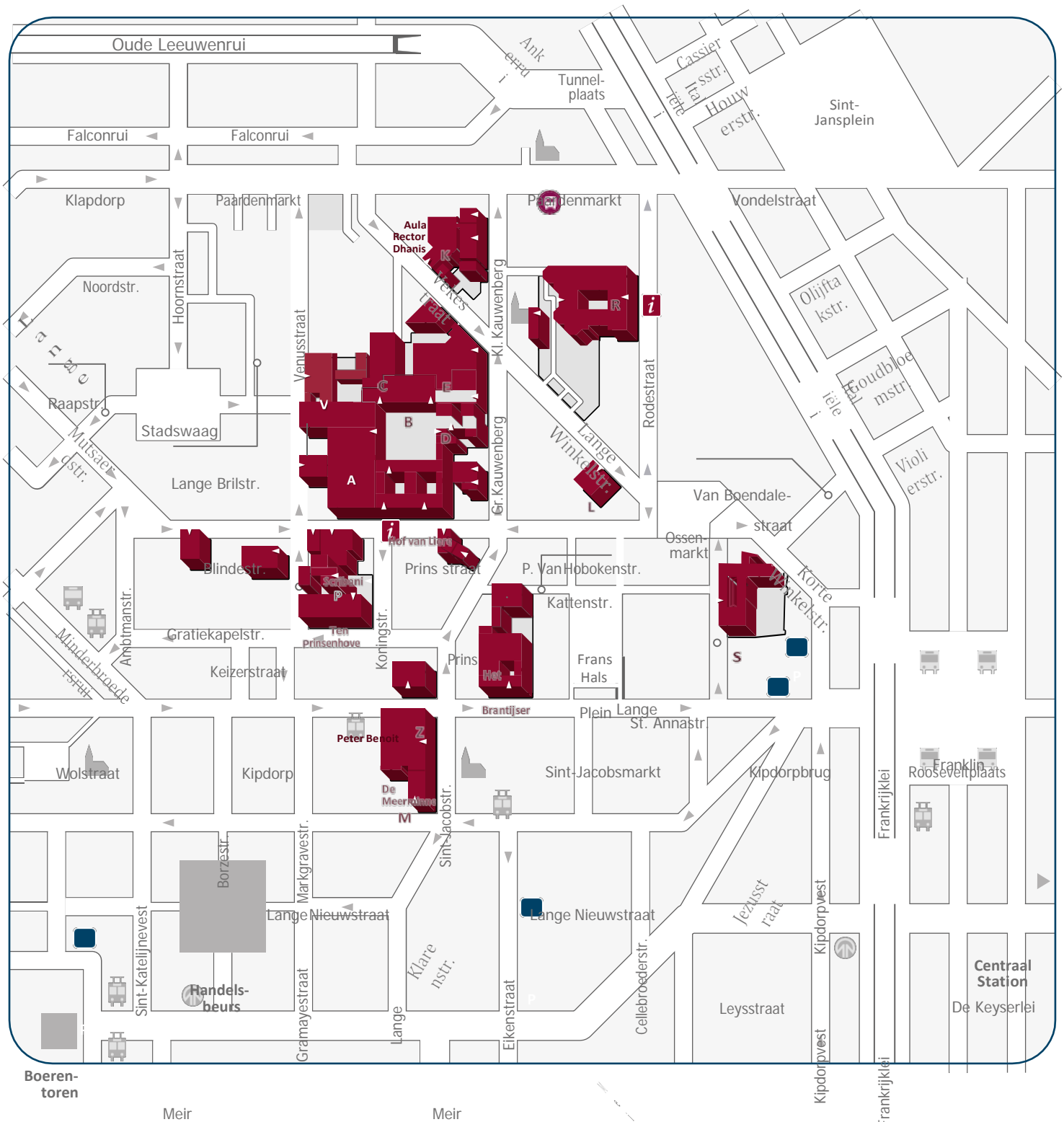
-  University of Antwerp
-  FelixArchief (Welcome Reception)
-  ZOO Antwerp (Gala Dinner)
-  Meeting Point Bus Technical Tours
-  Conference Accommodation



Map of the University of Antwerp - Stadscampus

The conference sessions will mainly take place in the following rooms of the University of Antwerp - Stadscampus: B.001, B.002, B.003, B.004, C.002, C.003, C.101, C.102, C.103, C.204.

Rooms D.013, D.014 and D.015 are available for meetings and as working space.



Getting to University of Antwerp Stadscampus



The Stadscampus of the University of Antwerp is within walking distance of the city centre and conference accommodation.

Reaching the Stadscampus by public transport

The Stadscampus is a 15 minute walk from Antwerp Central Station (Antwerpen-Centraal) and the bus hub at F. Rooseveltplaats.

Reaching the Stadscampus by car

In the Antwerp city center large-scale roadworks take place until the beginning of 2019. The stress-free way to get to the university is by bike or publictransport.

If you're coming by car, be sure to check www.slimnaarantwerpen.be for up-to-date traffic info.

There are several paid car parks nearby the campus:

- QPark Eikenstraat: entrance Eikenstraat 9, 2000 Antwerp
- Interparking Meir: entrance Eiermarkt 33/35, 2000 Antwerp
- Qpark Shopping Meir: entrance Korte Klarenstraat 10, 2000 Antwerp
- Parking St. Jacob: entrance Sint-Jacobsmarkt 81, 2000 Antwerp

Attention: Low Emission Zone

As of 1 February 2017, the entire city centre of Antwerp and part of Linkeroever are a Low Emission Zone (LEZ). The most polluting cars will no longer be welcome in the city as of this date.

Check your car and find all information on: www.slimnaarantwerpen.be/en/lez

Local organizing institutions



The University of Antwerp is characterised by its high standards in education, internationally competitive research and an entrepreneurial approach. It was founded in 2003 after the merge of three universities. The University's roots go back to 1852. The University of Antwerp has approximately 20,000 students, which makes it the third largest university in Flanders. About 13% of those students are from foreign countries all over the world, with a majority from EU countries. In order to face the challenges posed by the internationalisation of European education and research, the University is part of the Antwerp University Association (AUHA).

www.uantwerp.be



The Department of Transport and Regional Economics (TPR) is the home of C-MAT. TPR is committed to be an international centre of excellence for fundamental and applied academic research in transport economics, logistics and regional economics. Its mission is to improve transport and logistics for our society and the business community. Its research results in theories, applications and instruments to enhance existing academic knowledge, transport policy and supply chain environments. Therefore, TPR conducts innovative and multi-disciplinary research within an international context and organizes educational programs from bachelor up to PhD level. TPR pursues results that are academically sound, economically viable and supporting sustainable development. It values a critical and an independent approach and an open communication. TPR's research activities unfold within a framework of programs stimulated by the university, public authorities at all policy levels, non-profit organizations as well as private or semi-private actors.

www.uantwerp.be/tpr



C-MAT, the Centre for Maritime and Air Transport Management established in 2015 is one of the world's premier suppliers of highly specialized academic as well as practice-based education and research in transport economics. C-MAT offers a strong international MSc programme that links academic research to contemporary industry know-how and practice with specialization in Maritime, or Air Transport. Next to the MSc programme, C-MAT offers short specialisation courses open to industry representatives designed to address current industry challenges and academic research questions.

Students taking C-MAT's programme will benefit from highly specialised instruction and intercultural training as well as from opportunities to engage in international networking. The added value of C-MAT lies in its commitment to academic rigor and practical assessment: the academic education we offer is supported by highly competent staff members from the Faculty of Applied Economics and guest professors who have devoted their talents and careers to advancing this mission. The centre contributes actively to research on transportation and has a proven track record in the field. C-MAT pledges to support students' work, encourage their professional development and evaluate their professional performance.

www.c-mat.be



ATRS Networking Committee and Corporate Members

ATRS Networking Committee

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Partners

Strategic partners

Brussels Airport

www.brusselsairport.be/en

Brussels Airport is one of the largest airports in Europe, handling nearly 22 million passengers and 500,000 tonnes of freight annually. Brussels Airport links the European capital with 238 destinations worldwide that are served by 78 different airlines (figures 2016).

Brussels Airport caters for the specific needs of the business travelers and holidaymakers, for both intra-European and long distance flights, and also has the largest low-fare offer in Belgium. Brussels Airport is the second most important centre of economic growth in Belgium providing direct and indirect employment for 60,000 people.



Belgocontrol

www.belgocontrol.be/home

Belgocontrol is an autonomous public company founded in 1998. Besides air traffic management and control, Belgocontrol provides many other services to civil aviation: pre-flight information, flight plan assistance, aeronautical and meteorological information, communication, navigation and surveillance services, as well as training of air traffic controllers. More than 750 persons among whom 300 air traffic controllers work on 7 sites, day and night, 365 days a year.



Brussels Airlines

www.brusselsairlines.com

Brussels Airlines, member of Lufthansa Group and a Star Alliance member, is the Belgian airline that offers the widest choice of flights to and from the capital of Europe, Brussels Airport. The company has more than 3,500 employees and 50 aircraft operating some 300 flights daily, connecting the Capital of Europe to over 90 European and African destinations, as well as three destinations in North America (New York JFK, Washington D.C. and Toronto) and one in India (Mumbai).



Gold Sponsor

Antwerp International Airport (LEM/LOM Antwerpen)

www.antwerp-airport.be

Antwerp International Airport is located at the economic heart of Flanders, about 4 km from Antwerp city center and has a catchment area of 3 million people within a 1 hour driving distance. It's easily accessible by road and offers affordable car parking. The passenger terminal has modern facilities and meets the expectations of both passengers and airlines in terms of services and international standards. Antwerp International Airport was voted 4th best Airport Worldwide by Test Aankoop (May 2017).



Silver Sponsors



Federal Public Service Economy, S.M.E.s, Self-employed and Energy

www.economie.fgov.be/en

Over the next six years the FPS Economy, inspired by the values of respect and excellence, has the intention of developing a joint strategy to serve the players on the goods and services market. Within the federal authorities the FPS aims to be the key figure in regulating and coordinating the policies and the governance of the single market, as regards both its internal and external aspects, in a permanent dialogue with the regions.

Flemish Government Department of Economy, Science & Innovation

www.ewi-vlaanderen.be/en

The Department of Economy, Science and Innovation (EWI Department) prepares, monitors and evaluates policy in the Economy, Science and Innovation policy area. Their main aim is to develop Flanders into one of the most advanced and prosperous regions in the world. Their driving forces are the promotion of excellence in scientific research, an attractive and sustainable business climate, a creative, innovative and entrepreneurial society.



DiamondLand

www.diamondland.be

In the heart of the famous diamond district, at a walking distance from the renowned Diamond Bourse, lies the largest diamond showroom in Antwerp: DiamondLand. Whether you are looking for a memorable experience or the finest quality affordable diamond jewellery, a tour at DiamondLand is a something every person needs to experience at least once.



Bronze Sponsors

DHL

www.dhl.com

DHL is the global market leader in the logistics and transportation industry and “The logistics company for the world”. DHL commits its expertise in international express, national and international parcel delivery, air and ocean freight, road and rail transportation as well as contract and e-commerce related solutions along the entire supply chain. A global network composed of more than 220 countries and territories and around 315,000 employees worldwide offers customers superior service quality and local knowledge to satisfy their shipping and supply chain requirements. DHL accepts its social responsibility by supporting environmental protection, disaster management and education.



PwC Belgium

www.pwc.be

At PwC, they are committed to providing quality audit, tax and consulting services to our public and private clients in Belgium and internationally. PwC is founded on the principle of creating value through relationships – it's a principle that lies at the heart of everything they do and everywhere they are. PwC believes that being able to call on their global network of specialists in 157 countries helps us to create even greater value for your business and your investments.



Liege Airport

www.liegeairport.com

Liege Airport is the most specialized cargo platform in the heart of the Amsterdam-Paris-Frankfurt golden triangle. Having a product-driven development strategy it positions itself as the easy in & out cargo hub for Central Europe. Be it e-commerce, pharmaceutical products or perishables, each product group has a specialized set of procedures to guarantee the fastest throughput time on the market. Liege Airport, the Flexport® is less than one day by truck from the largest European cities, thus reaching around 400 million consumers. Besides offering a non-congested 24/7 operational airport it also offers the advantage of an excellent, uncongested motorway network.



InterVISTAS Consulting Group

www.intervistas.com

InterVISTAS Consulting Group is a leading management consulting company with extensive expertise in aviation, transportation and tourism. Their exceptional people have successfully delivered projects in over 75 countries around the world. They are committed to working collaboratively with their clients to apply vision and expertise to achieve results.



Unifly

www.unifly.aero

Unifly is an award-winning spin-off company of VITO (Flemish institute for technological research) specialized in aviation software development. Their main mission is to develop software applications that facilitate drone traffic in the very-low-altitude airspace. The focus is always on safety for all stakeholders involved. Their innovative tools inform drone operators where it is safe and legal to fly there drone and enable authorities and other aviation stakeholders to track the drone traffic and manage their airspace.



Wi-Fi Guest Account

The login and password of your personal Wi-Fi Guest Account is distributed with your conference badge.

The network of the University of Antwerp may only be used for legal purposes.

Users must make sure their equipment is in no way a threat to the proper operation of other networked devices (virus-free, ...).

Some applications (e.g. P2P networks) are excluded from use on the UAntwerp network. If you will use such applications, your device will be quarantined for at least one hour.

This means that during this period no connection can be made to the internet.

Take care: some download programs (characterized by contacting a lot of hosts in a limited period) can be seen as a P2Pclient and can trigger the device to be quarantined.

The use of the UAntwerp network is at your own risk. The University of Antwerp is not responsible for any damage to your device by using the UAntwerp network.

