

# 24<sup>th</sup> ATRS World Conference | 26-29 August 2021

## Program

ONLINE at <https://atrs2021sydney.events.whova.com>

\*\* Unless specified as WEBINAR, all sessions will be via session Zoom meeting links to be issued by UNSW Zoom licence.

### PROGRAMME OVERVIEW

#### WEDNESDAY 25 AUGUST 2021 AEST

23:00 AEST / 6:00 PDT / 9:00 EDT / 15:00 CEST / 21:00 SST / 13:00 UTC

**ATRS Networking Committee Meeting (by invitation only)**

#### THURSDAY 26 AUGUST 2021 AEST

22:00-1:00(+1) AEST / 8:00-11:00 EDT / 14:00-17:00 CEST / 20:00-23:00 SST / 12:00-15:00 UTC

**Ph.D. Student and Junior Faculty Workshop 1**

23:00-24:00 AEST / 6:00-7:00 PDT / 9:00-10:00 EDT / 15:00-16:00 CEST / 21:00-22:00 SST

**ATRS Executive Committee Meeting (by invitation only)**

#### FRIDAY 27 AUGUST 2021 AEST

15:45-16:00 AEST / 1:45-2:00 EDT / 7:45-8:00 CEST / 13:45-14:00 SST / 5:45-6:00 UTC

**Welcome Address**

16:00-16:45 AEST / 2:00-2:45 EDT / 8:00-8:45 CEST / 14:00-14:45 SST / 6:00-6:45 UTC

**Keynote Speech**

16:45-17:45 / 2:45-3:45 EDT / 8:45-9:45 CEST / 14:45-15:45 SST / 6:45-7:45 UTC

**Panel Discussion**

17:45-19:00 / 3:45-5:00 EDT / 9:45-11:00 CEST / 15:45-17:00 SST / 7:45-9:00 UTC

**Break**

19:00-20:30 AEST / 5:00-6:30 EDT / 11:00-12:30 CEST / 17:00-18:30 SST / 9:00-10:30 UTC

**Concurrent Session 1**

- EU1 Air Cargo
- EU2 Air Transport and COVID-19 1
- EU3 Air Transport Demand 1
- EU4 Air Transport Policy & Regulation 1
- EU5 Airline Economics & Performance 1
- EU6 Airline Strategy & Management 1

20:30-22:00 AEST / 6:30-8:00 EDT / 12:30-14:00 CEST / 18:30-20:00 SST / 10:30-12:00 UTC

**Break**

22:00-24:00 AEST / 8:00-10:00 EDT / 14:00-16:00 CEST / 20:00-22:00 SST / 12:00-14:00 UTC

**Academic Keynote Speeches**

0:00-0:45 AEST (+1) / 10:00-10:45 EDT / 16:00-16:45 CEST / 22:00-22:45 SST / 14:00-14:45 UTC

**ATRS Global Airport Performance Benchmarking Report and Excellence Award Presentation**

#### SATURDAY 28 AUGUST 2021 AEST

7:00-8:30 AEST / 17:00-18:30 EDT (-1) / 23:00-0:30 CEST(-1) / 5:00-6:30 SST / 21:00-22:30 UTC (-1)

**Concurrent Session 2**

- NA1 Air Transport Demand 2
- NA2 Air Transport and COVID-19 2

NA3 Airport Economics & Performance 1

NA4 Airline Operations 1

NA5 Air Transport Policy & Regulation 2

8:30-9:00 AEST / 18:30-19:00 EDT (-1) / 0:30-1:00 CEST / 6:30-7:00 SST / 22:30-23:00 UTC (-1)

**Break**

9:00-10:30 AEST / 19:00-20:30 EDT (-1) / 1:00-2:30 CEST / 7:00-8:30 SST / 23:00-0:30 UTC (-1)

**Concurrent Session 3**

AU1 Aviation Education Special Session 1

AU2 Air Transport and COVID-19 3

NA6 Air Transport Demand 3

NA7 Air Transport and COVID-19 4

NA8 Airport Strategy & Management 1

NA9 Marketing & Consumer Behavior in Air Transport 1

NA10 Airline Economics & Performance 2

10:30-11:00 AEST / 20:30-21:00 EDT (-1) / 2:30-3:00 CEST / 8:30-9:00 SST / 0:30-1:00 UTC

**Break**

11:00-12:30 AEST / 21:00-22:30 EDT (-1) / 3:00-4:30 CEST / 9:00-10:30 SST / 1:00-2:30 UTC

**Concurrent Session 4**

AU3 Aviation Safety & Security 1

AU4 Airline Strategy & Management 2

AU5 Aviation & Economic Development

AU6 Airline Economics & Performance 3

AS1 Air Transport Policy & Regulation 3

BJ1 Sustainability in Air Transport 1

HK1 COVID-19 and Sustainability in Air Transport

12:30-13:00 AEST / 22:30-23:00 EDT (-1) / 4:30-5:00 CEST / 10:30-11:00 SST / 2:30-3:00 UTC

**Break**

13:00-14:30 AEST / 23:00(-1)-0:30 EDT / 5:00-6:30 CEST / 11:00-12:30 SST / 3:00-4:30 UTC

**Concurrent Session 5**

AU7 Airport Operations 1

AU8 Sustainability in Air Transport 2

AU9 Air Transport Policy & Regulation 4

AU10 Airline Network Development

BJ2 Air Transport and COVID-19 5

BJ3 Airline Operations 2

HK2 Airline and Airport Economics

14:30-15:00 AEST / 0:30-1:00 EDT / 6:30-7:00 CEST / 12:30-13:00 SST / 4:30-5:00 UTC

**Break**

15:00-18:00 AEST / 1:00-4:00 EDT / 7:00-10:00 CEST / 13:00-16:00 SST / 5:00-8:00 UTC

**Ph.D. Student and Junior Faculty Workshop 2**

## WEDNESDAY 25 AUGUST 2021

23:00-24:00 AEST | 06:00-7:00 PDT | 09:00-10:00 EDT | 15:00-16:00 CEST | 21:00-22:00 SST | 13:00-14:00 UTC

### **ATRS NETWORKING COMMITTEE MEETING (BY INVITATION ONLY)**

Zoom Link: [via ATRS](#)

## THURSDAY 26 AUGUST 2021

22:00-01:00 (+1) AEST | 08:00-11:00 EDT | 14:00-15:00 CEST | 20:00-23:00 SST | 12:00-15:00 UTC

### **PH.D. STUDENT AND JUNIOR FACULTY WORKSHOP 1**

Facilitated by Christian Bontemps  
ENAC & Toulouse School of Economics

1. **Asymmetric Information on Aviation Market**  
Leonardo Basso  
Universidad de Chile, Chile
2. **Mergers and Quality in Airline Market**  
Silke Forbes  
Tufts University, Boston

#### **Zoom Webinar Link**

<https://unsw.zoom.us/j/81757242354>

#### **Alternative Host**

Christian Bontemps  
ENAC & Toulouse School of Economics

23:00-24:00 AEST | 06:00-07:00 PDT | 09:00-10:00 EDT | 15:00-16:00 CEST | 21:00-22:00 SST | 13:00-14:00 UTC

### **ATRS EXECUTIVE COMMITTEE MEETING (BY INVITATION ONLY)**

Zoom Link: [via ATRS](#)



## FRIDAY 27 AUGUST 2021

15:45-16:00 AEST | 01:45-02:00 EDT | 07:45-08:00 CEST | 13:45-14:00 SST | 05:45-06:00 UTC

### WELCOME ADDRESS

1. Professor Emma Johnston  
AO FTSE FRSN, Dean of UNSW Science
2. Professor Anming Zhang  
President of the ATRS
3. Professor Gabriel Lodewijks  
Head of School, UNSW Aviation
4. Dr Ian Douglas  
Chair of the ATRS Conference

#### Zoom Webinar Link

<https://unsw.zoom.us/j/81968628435>

16:00-16:45 AEST | 02:00-02:45 EDT | 08:00-08:45 CEST | 14:00-14:45 SST | 06:00-06:45 UTC

### KEYNOTE SPEECH

**Speaker:** Dhruv Gupta  
Chief Aviation Officer, Sydney Airport

#### Zoom Webinar Link

<https://unsw.zoom.us/j/81968628435>

16:45-17:45 AEST | 02:45-03:45 EDT | 08:45-09:45 CEST | 14:45-15:45 SST | 06:45-07:45 UTC

### PANEL DISCUSSION

#### Panelists

Dhruv Gupta  
Chief Aviation Officer, Sydney Airport

Trent Banfield  
International Operations and Aviation Development, Tourism Australia

Alistair Hartley  
Head of Strategy, Virgin Australia

#### Moderator

Dr Ian Douglas  
Chair of the ATRS Conference

#### Zoom Webinar Link

<https://unsw.zoom.us/j/81968628435>

17:45-19:00 | 3:45-5:00 EDT | 9:45-11:00 CEST | 15:45-17:00 SST | 7:45-9:00 UTC

### BREAK

## CONCURRENT SESSION 1

Region: EUROPE paper session 1 (28 papers/6 parallel streams)

### EU1: Air Cargo

#### Session Chair

Andrew Timmis  
Loughborough University

#### Zoom link

<https://unsw.zoom.us/j/82708766508>

Paper 1: #6

Presented by [Adedotun Joseph Adenigbo](#)

#### **Analysis of Air Cargo Traffic at Airports in Nigeria and Ghana**

(Adedotun Joseph Adenigbo, The Federal University of Technology, Akure; E. E. Okoko, The Federal University of Technology, Akure; K. T. Gbadamosi, The Federal University of Technology, Akure)

Paper 2: #108

Presented by [Andrew Timmis](#)

#### **The Use of B2B Loyalty Programmes by International Cargo Airlines: An Investigation**

(Andrew Timmis, Loughborough University ; Lucy Budd, De Montfort University; Stephen Ison, De Montfort University)

Paper 3: #112

Presented by [Juliane Roesing](#)

#### **Identifying Requirements for Airside Supplied Cityhubs**

(Juliane Roesing, RWTH Aachen; Idoaldo de Lima, RWTH Aachen; Eva Feldhoff, RWTH Aachen; Sabrina Hoenen, RWTH Aachen; Fabian Kuehnel, RWTH Aachen; Alexandra Theissen, RWTH Aachen)

Paper 4: #147

Presented by [Sin-Juer Lu](#)

#### **Air Cargo Efficiency Assessment in Far East Airports**

(Shin-Jer Lu, University of Antwerp; Wouter Dewulf, University of Antwerp)

### EU2: Air Transport and COVID-19 1

#### Session Chair

Cathal Guiomard  
Dublin City University, Ireland

#### Zoom link

<https://unsw.zoom.us/j/87651263702>

Paper 1: #113

Presented by [Oguzhan Yilmaz](#)

#### **UK Employee Airport Ground Access Strategies Post-COVID: An Airport Management Perspective**

(Oguzhan Yilmaz, Loughborough University; Matthew Frost, Loughborough University; Andrew Timmis, Loughborough University; Stephen Ison, De Montfort University)

Paper 2: #214

Presented by [Noel Hiney](#)

#### **Assessing the Impact of Covid-19 on Irish Airports and their Stakeholder Relationships.**

(Noel Hiney, Dublin City University; Marina Efthymiou, Dublin City University; Morgenroth Edgar, Dublin City University)

Paper 3: #231

Presented by [Ozlem Colak](#)

#### **Airport Business Models in the Face of a Demand Shock: The Case of the COVID19 Pandemic**

(Ozlem Colak, Loughborough University; Marcus Enoch, Loughborough University; Craig Morton, Loughborough University)

Paper 4: #271

Presented by [Sava S Ates](#)

#### **Analysis of the Arrival Patterns of Passengers to Checkpoints within the Airport According to Passenger and Flight Characteristics at Covid-19 Pandemic**

	<p>(Savas S Ates, Eskisehir Technical University; Gokhan Koc, TAV Technologies; Talha Koç, TAV Technologies; Mustafa Bolat, TAV Technologies; Savas S. Ates, Eskisehir Technical University)</p> <p>Paper 5: #302 Presented by <a href="#">Cathal Guiomard</a> <b>How have airport charges responded to the Covid-19 collapse in passenger demand?</b> (Cathal Guiomard, Dublin City University, Ireland; Peter Forsyth, Monash University; Hans-Martin Niemeier, University of Applied Sciences, Bremen)</p>
<p><b>EU3: Air Transport Demand 1</b></p> <p><b>Session Chair</b> Flavio Porta University of Bergamo</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/89535978092">https://unsw.zoom.us/j/89535978092</a></p>	<p>Paper 1: #1 Presented by <a href="#">Marco Genovese</a> <b>Price Elasticity of Luggage in Switzerland.</b> (Marco Genovese, University of St. Gallen; Andreas Wittmer, University of St. Gallen)</p> <p>Paper 2: #157 Presented by <a href="#">Nicolò Avogadro</a> <b>Diverted and induced demand: evidence from the London-Paris passenger market.</b> (Nicolò Avogadro, University of Bergamo; Renato Redondi, University of Bergamo)</p> <p>Paper 3: #210 Presented by <a href="#">Mattia Cattaneo</a> <b>A grid-based evolutionary spatial algorithm for airline service design in multi-airport systems</b> (Mattia Cattaneo, University of Bergamo; Sebastian Birolini, University of Bergamo; Paolo Malighetti, University of Bergamo; Stefano Paleari, University of Bergamo)</p> <p>Paper 4: #290 Presented by <a href="#">Flavio Porta</a> <b>The air transportation impact on tourism in Europe: A structural equation model.</b> (Flavio Porta, University of Bergamo; Gianmaria Martini, University of Bergamo; Christian Bontemps, TSE - Toulouse School of Economics)</p> <p>Paper 5: #145 Presented by <a href="#">John F. O'Connell</a> <b>Developments and Future Prospects for UK-China Air Passenger Services</b> (John F. O'Connell, Anne Graham, and Xingwu Zheng)</p>
<p><b>EU4: Air Transport Policy &amp; Regulation 1</b></p> <p><b>Session Chair</b> Yukihiro Kidokoro National Graduate Institute for Policy Studies, Japan</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/86099315161">https://unsw.zoom.us/j/86099315161</a></p>	<p>Paper 1: #56 Presented by <a href="#">Deborah Ansell</a> <b>Is CORSIA the first global tax?</b> (Deborah Ansell, University of Westminster)</p> <p>Paper 2: #116 Presented by <a href="#">Saskia van der Loo</a> <b>Identification of levers and barriers for the adoption of new ATM technologies.</b> (Eef Delhaye, Transport &amp; Mobility Leuven; Saskia Van der Loo, Transport &amp; Mobility Leuven; Christophe Heyndrickx, Transport &amp; Mobility Leuven; Danlin Zheng Zhang, CRIDA; Adrián Fabio Bracero, CRIDA)</p> <p>Paper 3: #139 Presented by <a href="#">Joeri Meeus</a> <b>Integrated Management Systems in Aviation.</b> (Eef Delhaye, Transport &amp; Mobility Leuven; Saskia Van der loo, Transport &amp; Mobility Leuven; Christophe Heyndrickx, Transport &amp;</p>

	<p>Mobility Leuven; Danlin Zheng Zhang, CRIDA; Adrián Fabio Bracero, CRIDA)</p> <p>Paper 4: #300 Presented by <u>Shravan Kumar</u> <b>Efficiency Assessment of Airports and the Impact of Regulation on Performance.</b> (Shravan Kumar, TU Dresden and Hochschule Bremen City University of Applied Sciences; Nicole Adler, The Hebrew University of Jerusalem)</p>
<p><b>EU5: Airline Economics &amp; Performance 1</b></p> <p><b>Session Chair</b> Michele Meoli University of Bergamo</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/87087644906">https://unsw.zoom.us/j/87087644906</a></p>	<p>Paper 1: #66 Presented by <u>Sylvain Bourjade</u> <b>Optimal Leasing and Airlines' Cost Efficiency: A stochastic Frontier Analysis.</b> (Catherine Muller-Vibes, Toulouse Business School; Sylvain Bourjade, Toulouse Business School)</p> <p>Paper 2: #71 Presented by <u>Juan Dempere</u> <b>Explanatory Power of the Tourist Destination Competitiveness Index on Leading Airlines' Environmental, Social, and Governance (ESG) Performance Variables.</b> (Juan Dempere, Higher Colleges of Technology)</p> <p>Paper 3: #110 Presented by <u>Michele Meoli</u> <b>Value determinants in the aviation industry over the decade 2010-2019.</b> (Michele Meoli, University of Bergamo; Stefano Paleari, University of Bergamo)</p> <p>Paper 4: #117 Presented by <u>Tassew Dufera Tolcha</u> <b>Prospects of airlines competition in Africa.</b> (Tassew Dufera Tolcha, Molde University College)</p> <p>Paper 5: #122 Presented by <u>Lars-Michael Wendel</u> <b>The creation of Architectural Advantage in the airline industry: Strategic options to migrate value.</b> (Lars-Michael Wendel, University of Antwerp ; Sascha Albers , University of Antwerp ; Wouter Dewulf, University of Antwerp)</p>
<p><b>EU6: Airline Strategy &amp; Management 1</b></p> <p><b>Session chair</b> Gianmaria Martini Università degli Studi di Bergamo</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/81176742251">https://unsw.zoom.us/j/81176742251</a></p>	<p>Paper 1: #8 Presented by <u>Brandon Foong Jia Jun</u> <b>An Analysis of the Performance of Southeast Asian Airlines: The Case of AirAsia.</b> (Brandon Foong Jia Jun, University of Surrey; David Warnock-Smith, Buckinghamshire New University; John Francis O'Connell, University of Surrey; Marina Efthymiou, Dublin City University)</p> <p>Paper 2: #43 Presented by <u>Stefan Chabiera</u> <b>Business model of regional airlines.</b> (Stefan Chabiera, The Wroclaw University of Economics and Business)</p> <p>Paper 3: #152 Presented by <u>Fabian Steinmann</u> <b>Avoiding failure by implementing resilience proactively.</b> (Fabian Steinmann, Cranfield University; Colin Pilbeam, Cranfield University; Graham Braithwaite, Cranfield University)</p>

Paper 4: #284  
Presented by Yilmaz Yildirim  
**The link between organizational citizenship behaviours and intention to quit in Turkish Airlines Companies: A study between female and male pilots.**  
(Yilmaz Yildirim, Anadolu University; Vildan Durmaz, Eskişehir Technical University)

20:30-22:00 AEST | 6:30-8:00 EDT | 12:30-14:00 CEST | 18:30-20:00 SST | 10:30-12:00 UTC

## **BREAK**

22:00-24:00 AEST | 08:00-10:00 EDT | 14:00-16:00 CEST | 20:00-22:00 SST | 12:00-14:00 UTC

## **ACADEMIC KEYNOTE SPEECHES**

1. Spillovers of airline competition to related products  
Silke Forbes  
Tufts University, Boston
2. Frequent flyer programs: Distance based versus fare based  
Leonardo Basso  
Universidad de Chile, Chile

### **Zoom Webinar Link**

<https://unsw.zoom.us/j/84912085962>

### **Alternative Host**

Christian Bontemps  
ENAC & Toulouse School of Economics

00:00-00:45 AEST (+1) | 10:00-10:45 EDT | 16:00-16:45 CEST | 22:00-22:45 SST | 14:00-14:45 UTC

## **ATRS GLOBAL AIRPORT PERFORMANCE BENCHMARKING REPORT AND EXCELLENCE AWARD PRESENTATION**

### **Presented by**

Chunyan Yu  
Embry-Riddle Aeronautical University

### **Zoom Webinar Link**

<https://unsw.zoom.us/j/89234600299>

### **Alternative Host**

Chunyan Yu  
Embry-Riddle Aeronautical University

## **SATURDAY 28 AUGUST 2021**

00:00-00:45 AEST (+1) | 10:00-10:45 EDT | 16:00-16:45 CEST | 22:00-22:45 SST | 14:00-14:45 UTC

## **ATRS GLOBAL AIRPORT PERFORMANCE BENCHMARKING REPORT AND EXCELLENCE AWARD PRESENTATION**

### **Presented by**

Chunyan Yu  
Embry-Riddle Aeronautical University

### **Zoom Webinar Link**





<https://unsw.zoom.us/j/89234600299>

**Alternative Host**

Chunyan Yu  
Embry-Riddle Aeronautical University

07:00-08:30 AEST | 17:00-18:30 EDT (-1) | 23:00-0:30 CEST (-1) | 05:00-06:30 SST | 21:00-22:30 UTC (-1)

**CONCURRENT SESSION 2**

Region: NORTH AMERICA paper session 1 (19 papers/5 parallel streams/90 mins + 30 min break)

**NA1: Air Transport Demand 2**

**Session Chair**

Antônio Marcos Ferreira de Oliveira  
Secretaria Nacional de Aviação Civil / Ministério da Infraestrutura

**Zoom link**

<https://unsw.zoom.us/j/85410539022>

Paper 1: #74

Presented by [Lucas Coelho e Silva](#)

**Statistical models for air transport passenger volume estimation in the Brazilian domestic market using cellular network signaling data.**

(Lucas Coelho e Silva, Aeronautics Institute of Technology (ITA); Fernando Antonio Pavao, Aeronautics Institute of Technology (ITA); Marcelo Xavier Guterres, Aeronautics Institute of Technology (ITA); Mayara Conde Rocha Murca, Aeronautics Institute of Technology (ITA); Anderson Ribeiro Correia, Aeronautics Institute of Technology (ITA); Michelle Carvalho Galvao da Silva Pinto Bandeira, Aeronautics Institute of Technology (ITA))

Paper 2: #149

Presented by [Rodrigo Ventura](#)

**Consumer behaviour analysis based on income and price elasticities: the case of the air transportation in Brazil.**

(Rodrigo Ventura, UFRJ Federal University of Rio de Janeiro; Elton Fernandes, UFRJ Federal University of Rio de Janeiro; Manoela Cabo, IBGE Brazilian Institute of Geography and Statistics; Vicente Aprigliano Fernandes, Pontificia Universidad Catolica de Valparaiso; Rafael Caixeta, UFRJ Federal University of Rio de Janeiro; Augusto Cesar Fadel, IBGE Brazilian Institute of Geography and Statistics)

Paper 3: #161

Presented by [Antônio Marcos Ferreira de Oliveira](#)

**Air passenger demand model estimated on Big data analytics in mobile phone networks: the case of Brazilian domestic market.**

(Antônio Marcos Ferreira de Oliveira, Secretaria Nacional de Aviação Civil / Ministério da Infraestrutura; Anderson Schmitt, UFSC/LabTrans; Jonatas Albuquerque, UFSC; Fernando Seabra, UFSC; ANA SOFIA Cardoso Cunha, UFSC; Amir Mattar Valente, UFSC)

Paper 4: #223

Presented by David Hopfe

**Air-Passenger Volume Estimation under Unanticipated Economic Disruptions.**

(David Hopfe, Embry-Riddle Aeronautical University)

**NA2: Air Transport and COVID-19 - 2**

**Session Chair**

Martin Dresner  
University of Maryland

**Zoom link**

<https://unsw.zoom.us/j/81922617919>

Paper 1: #127

Presented by [Daniel Friedenzohn](#)

**The Covid-19 Impact on the Evolution of the Transpacific Airline Passenger Market.**

(Daniel Friedenzohn, Embry-Riddle Aeronautical University; Nicholas Quake, Embry-Riddle Aeronautical University)

Paper 2: #162

Presented by [Martin Dresner](#)



	<p><b>Pandemic Airline Strategies: A Performance Analysis</b> (Martin Dresner, University of Maryland; Andrea Gualini, University of Bergamo; Li Zou, Embry-Riddle Aeronautical University)</p> <p>Paper 3: #181 Presented by <a href="#">Sen Wang</a> <b>Can COVID-19 data be used to guide airline stock trading during the pandemic?</b> (Sen Wang, Purdue University; Yi Gao, Purdue University)</p> <p>Paper 4: #268 Presented by <a href="#">Jin Yu Pan</a> <b>Mask-Wearing Intentions and Behaviors in Air Travel During Coronavirus Pandemic – An Extended Theory of Planned Behavior Model.</b> (Jing Yu Pan, Embry Riddle Aeronautical University; Dahai Liu, Embry Riddle Aeronautical University)</p>
<p><b>NA3: Airport Economics &amp; Performance 1</b></p> <p><b>Session Chair</b> Julio Aguirre Universidad del Pacifico</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/87918557279">https://unsw.zoom.us/j/87918557279</a></p>	<p>Paper 1: #78 Presented by <a href="#">Woo Jin Choi</a> <b>Cost Optimization Modeling for Airport Capacity Expansion Problems in Metropolitan Areas.</b> (Woo Jin Choi, Embry-Riddle Aeronautical University; Dothang Truong, Embry-Riddle Aeronautical University)</p> <p>Paper 2: #224 Presented by <a href="#">Matheus Novaes Valinho</a> <b>Analysis of the economic impact of three large airports in an area of common influence.</b> (Matheus Novaes Valinho, Aeronautics Institute of Technology; Marcelo Xavier Guterres, Aeronautics Institute of Technology; Michelle Carvalho Galvão da Silva Pinto Bandeira, Aeronautics Institute of Technology; Anderson Ribeiro Correia, Aeronautics Institute of Technology; Mauro Zackiewicz, Aeronautics Institute of Technology; Luiz Antonio Tozi, Aeronautics Institute of Technology)</p> <p>Paper 3: #243 Presented by <a href="#">Ivaciane de Quadra Magalhães</a> <b>An economic analysis of the impact of airport infrastructure on population arrangements in a tourism region.</b> (Ivaciane de Quadra Magalhães, Aeronautics Institute of Technology; Mauro Zackiewicz, Aeronautics Institute of Technology; Michelle Carvalho Galvão da Silva Pinto Bandeira, Aeronautics Institute of Technology; Anderson Ribeiro Correia, Aeronautics Institute of Technology; Guterres Xavier Guterres, Aeronautics Institute of Technology; Luiz Antonio Tozi, Aeronautics Institute of Technology)</p> <p>Paper 4: #289 Presented by <a href="#">Julio Aguirre</a> <b>The effects of roads in presence of airports on regional tourism: evidence from Peru.</b> (Julio Aguirre, Universidad del Pacifico; Enzo Defilippi, Universidad del Pacifico; Pedro Rojas, Universidad del Pacifico)</p>
<p><b>NA4: Airline Operations 1</b></p> <p><b>Session Chair</b> Bo Zou University of Illinois at Chicago</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/81797357659">https://unsw.zoom.us/j/81797357659</a></p>	<p>Paper 1: #73 Presented by <a href="#">Gajapriya Tamilselvan</a> <b>Pilot Shortage: Predicting Pilots' Turnover in Part 121 Commercial Aviation.</b> (Gajapriya Tamilselvan, Saint Louis University/Parks College of Engineering, Aviation, and Technology; Scott Winter, Embry-Riddle Aeronautical University Daytona/College of Aviation)</p> <p>Paper 2: #234 Presented by <a href="#">Fernanda Toledo</a></p>

	<p><b>Towards on Multiplex Networks and Applications.</b> (Fernanda Toledo, Federal University of Rio de Janeiro; Nelson Ebecken, Federal University of Rio de Janeiro)</p> <p>Paper 3: #239 Presented by <a href="#">Bo Zou</a> <b>A Trajectory-Based and Data-Light Approach to Predicting Flight Time of Arrival.</b> (Bo Zou, University of Illinois at Chicago; Zhe Zheng, Nanjing University of Aeronautics and Astronautics; Wenbin Wei, San Jose State University)</p> <p>Paper 4: #277 Presented by <a href="#">Mitsuyoshi Fukushi</a> <b>Revenue Management Systems Simulation: With application in LCC vs FSC availability and pricing control heuristics under simulated heterogeneity.</b> (Mitsuyoshi Fukushi, Pontificia Universidad Catolica de Chile; Felipe Delgado, Pontificia Universidad Catolica de Chile; Sebastian Raveau, Pontificia Universidad Catolica de Chile; Bruno Santos, Delft University of Technology)</p>
<p><b>NA5: Air Transport Policy &amp; Regulation 2</b></p> <p><b>Session Chair</b> Jules Yimga Embry-Riddle Aeronautical University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/86400315902">https://unsw.zoom.us/j/86400315902</a></p>	<p>Paper 1: #3 Presented by <a href="#">Jules Yimga</a> <b>Multimarket Contact and Profitability Implications for US Airlines.</b> (Jules Yimga, Embry-Riddle Aeronautical University; Javad Gorjidoz, Embry-Riddle Aeronautical University)</p> <p>Paper 2: #222 Presented by <a href="#">Tyler Spence</a> <b>The International Relations of Aviation: Understanding How Government Relationships Facilitate the Development of Open Skies Agreements.</b> (Tyler Spence, Embry-Riddle Aeronautical University; Steven Leib, University of South Australia)</p> <p>Paper 3: #254 Presented by <a href="#">Wenxuan Chen</a> <b>Analysis of air passenger's attitudes towards the public policies and services during and after the COVID-19 Pandemic: Exploring the pathway of recovery in aviation industry.</b> (Wenxuan Chen, University of Manitoba; Changmin Jiang, University of Manitoba)</p> <p>Paper 4: #275 Presented by <a href="#">Luca J. Santos</a> <b>Predicting the Performance of Miles-In-Trail Restrictions in the Sao Paulo Terminal Area.</b> (Luca J. Santos, Aeronautics Institute of Technology; Mayara C. R. Murça, Aeronautics Institute of Technology)</p>
<p>08:30-09:00 AEST   18:30-19:00 EDT (-1)   00:30-01:00 CEST   06:30-07:00 SST   22:30-23:00 UTC (-1)</p> <p><b>BREAK</b></p>	

## CONCURRENT SESSION 3 (28 papers/7 parallel streams)

Region: AUSTRALIA/NZ paper session #1 (7 papers / 2 streams)

NORTH AMERICA paper session # 2 (21 papers / 5 parallel streams)

<p><b>AU1: Aviation Education Special Session 1</b></p> <p><b>Session Chair</b> Yahua Zhang University of Southern Queensland</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/81041252405">https://unsw.zoom.us/j/81041252405</a></p>	<p>Paper 1: #194 Presented by <a href="#">Julien Curlier</a> <b>Identifying the key learning outcomes for climate change education in aviation programs.</b> (Julien Curlier, Queens University; Tay Koo, University of New South Wales); Gabriel Lodewijks, University of New South Wales)</p> <p>Paper 2: #221 Presented by <a href="#">Steven Leib</a> <b>Analysis of the Impact of the COVID-19 Pandemic on Flight Training Students' Motivation and Engagement.</b> (Steven Leib, University of South Australia)</p> <p>Paper 3: #303 Presented by <a href="#">Tarryn Kille</a> <b>Fostering first year aviation students' transition, engagement and identity through a community of practice.</b> (Tarryn Kille, University of Southern Queensland; Wendy O'Brien, Griffith University; Paul R. Bates, University of Southern Queensland; Seung-Yong Lee, University of Southern Queensland)</p>
<p><b>AU2: Air Transport &amp; COVID-19 3</b></p> <p><b>Session Chair</b> Chrystal Zhang RMIT University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/82167177323">https://unsw.zoom.us/j/82167177323</a></p>	<p>Paper 1: #50 Presented by <a href="#">Yu Deng</a> <b>An analysis of the Chinese scheduled freighter network during the first year of the COVID-19 pandemic</b> (Yu Deng, University of Southern Queensland; Yahua Zhang, University of Southern Queensland)</p> <p>Paper 2: #69 Presented by <a href="#">Iryna Heiets</a> <b>The impact of COVID-19 pandemic to commercial aviation activity in Australia.</b> (Iryna Heiets, RMIT University; Tamara Oleshko, National Aviation University; Oleg Leshchinsky, National Aviation University)</p> <p>Paper 3: #105 Presented by <a href="#">Carl Gu &amp; Mirjam Wiedemann</a> <b>Impacts of Shock Events on Airport Planning.</b> (Carl Gu, University of South Australia; Mirjam Wiedemann, University of South Australia; Robert Freestone, University of New South Wales; Wouter Dewulf, University of Antwerp; Henrik Rothe, Cranfield University; Nicholas Stevens, University of the Sunshine Coast; Roel Gevaers, University of Antwerp)</p> <p>Paper 4: #253 Presented by <a href="#">Chrystal Zhang</a> <b>Assessing airports' resilience in response to COVID: the case of Chinese airports.</b> (Chrystal Zhang, RMIT University; Zhiyao Zhao, RMIT University)</p>
<p><b>NA6: Air Transport Demand 3</b></p> <p><b>Session Chair</b> Dothang Truong Embry-Riddle Aeronautical University</p> <p><b>Zoom link</b></p>	<p>Paper 1: #46 Presented by <a href="#">Austin Vaughn</a> <b>Usability of Urban Air Mobility in Response to Natural Disasters</b> (Austin Vaughn, Embry-Riddle Aeronautical University; Scott Winter, Embry-Riddle Aeronautical University; Stephen Rice, Embry-Riddle)</p>

<p><a href="https://unsw.zoom.us/j/88944565460">https://unsw.zoom.us/j/88944565460</a></p>	<p>Aeronautical University; Sean Crouse, Embry-Riddle Aeronautical University)</p> <p>Paper 2: #129 Presented by <u>Li Zou</u> <b>Exploring the factors affecting air travel seasonality in Asia.</b> (Li Zou, Embry-Riddle Aeronautical University; Chunyan Yu, Embry-Riddle Aeronautical University; Aisling Reynolds-Feighan, University College Dublin)</p> <p>Paper 3: #159 Presented by <u>Anderson Schmitt</u> <b>Brazilian domestic air cargo origin-destination (O-D) matrix estimated based on data from Domestic Electronic Air Waybill (CT-e).</b> (Anderson Schmitt, Universidade Federal de Santa Catarina - LabTrans/UFSC; Rafael Cunha, LabTrans/UFSC; Karla Santos, Secretaria Nacional de Aviação Civil - Ministerio da Infraestrutura; José dos Santos De Magalhães, LabTrans/UFSC; Amir Mattar Valente, LabTrans/UFSC)</p> <p>Paper 4: #226 Presented by <u>Dothang Truong</u> <b>Impact of COVID-19 on Air Travel Demand.</b> (Dothang Truong, Embry-Riddle Aeronautical University)</p>
<p><b>NA7: Air Transport &amp; COVID-19 4</b></p> <p><b>Session Chair</b> Anming Zhang The University of British Columbia</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/81497318245">https://unsw.zoom.us/j/81497318245</a></p>	<p>Paper 1: #128 Presented by <u>Youngran Choi</u> <b>Assessing the impact of air transport connectivity and anti-contagion policies on the COVID-19 transmission in a global context.</b> (Youngran Choi, Embry-Riddle Aeronautical University; Li Zou, Embry-Riddle Aeronautical University)</p> <p>Paper 2: #168 Presented by <u>David Ricardo Cecanecchia Fernandes</u> <b>COVID-19: Vaccination Process and its influence on air transport demand.</b> (David Ricardo Cecanecchia Fernandes, GOL Airlines; Luiz Henrique Cecanecchia Fernandes, Hospital Municipal e Maternidade Escola Dr Mario de Moraes; Viviane Adriano Falcão, Federal University of Pernambuco; Carlos Fabricio Assunção da Silva, Federal University of Pernambuco)</p> <p>Paper 3: #174 Presented by <u>Paulo Henrique Possas</u> <b>Proposals to regain the passenger confidence in the Brazilian civil aviation industry due to COVID-19.</b> (Paulo Henrique Possas, Ministry of Infrastructure of Brazil; Felipe Sousa, Ministry of Infrastructure of Brazil)</p> <p>Paper 4: #260 Presented by <u>Anming Zhang</u> <b>COVID-19, Air Transportation and International Trade in ASEAN.</b> (Anming Zhang, The University of British Columbia; Xiaoqian Sun, Beihang University; Sebastian WANDEL, Beihang University; Yahua Zhang, University of Southern Queensland, Australia)</p>
<p><b>NA8: Airport Strategy &amp; Management 1</b></p> <p><b>Session Chair</b> Chunyan Yu Embry-Riddle Aeronautical University</p>	<p>Paper 1: #45 Presented by <u>Maria Eduarda Madeira Benini</u> <b>Main Flexibility Indicators of an Airport Passenger Terminal Using DEA - Data Envelopment Analysis.</b></p>

<p><b>Zoom link</b>  <a href="https://unsw.zoom.us/j/82193264417">https://unsw.zoom.us/j/82193264417</a></p>	<p>(Maria Eduarda Madeira Benini, Instituto Tecnológico de Aeronáutica; Giovanna Miceli Ronzani Borille, Instituto Tecnológico de Aeronáutica)</p> <p>Paper 2: #172  Presented by <a href="#">Fabiana Todesco</a>  <b>Passenger Satisfaction Survey in Brazil: A Statistical Analysis.</b>  (Fabiana Todesco, Ministry of Infrastructure; Dario Rais Lopes, Universidade Mackenzie; Luiz Guilherme Nadal Nunes, SARA Network of Rehabilitation Hospitals)</p> <p>Paper 3: #232  Presented by <a href="#">Chunyan Yu</a>  <b>Global Air Cargo Demand, Operation and Network Analysis.</b>  (Chunyan Yu, Embry-Riddle Aeronautical University; Li Zou, Embry-Riddle Aeronautical University)</p> <p>Paper 4: #241  Presented by <a href="#">Airton Matos Andrade Fernandes Tiago</a>  <b>Classification of airport customer complaints using text mining techniques.</b>  (Airton Matos Andrade Fernandes Tiago, Aeronautical Technology Institute; Marcelo Xavier Guterres, Aeronautical Technology Institute; Michelle Carvalho Galvão da Silva Pinto Bandeira, Aeronautical Technology Institute; Matheus Calil Faleiros, Aeronautical Technology Institute; João Basilio Tarelho Szenczuk, Aeronautical Technology Institute)</p>
<p><b>NA9: Marketing &amp; Consumer Behavior in Air Transport 1</b></p> <p><b>Session Chair</b>  Sohel Imroz  Embry-Riddle Aeronautical University</p> <p><b>Zoom link</b>  <a href="https://unsw.zoom.us/j/85477356304">https://unsw.zoom.us/j/85477356304</a></p>	<p>Paper 1: #17  Presented by <a href="#">Sean Crouse</a>  <b>Consumer's Willingness to Fly Based on CEO Diversity: A Structural and Mediation Model.</b>  (Sean Crouse, Embry-Riddle Aeronautical University; Tracy Lamb, Embry-Riddle Aeronautical University; Scott Winter, Embry-Riddle Aeronautical University; Joseph Keebler, Embry-Riddle Aeronautical University)</p> <p>Paper 2: #28  Presented by <a href="#">Bora Suavi Unsal</a>  <b>Comparison of Airline Co-Branded Credit Card Programs via Frequent Flyer Money Saver Analysis for Full-Service U.S. Carriers.</b>  (Bora Suavi Unsal, Embry Riddle Aeronautical University)</p> <p>Paper 3: #52  Presented by <a href="#">Tamilla Curtis</a>  <b>Multigroup Analysis of Corporate Social Responsibility Perceptions in the Airline Industry and their Impact on Corporate Reputation, Passenger Loyalty and Satisfaction.</b>  (Tamilla Curtis, Embry-Riddle Aeronautical University; Scott Ambrose, Embry-Riddle Aeronautical University)</p> <p>Paper 4: #72  Presented by <a href="#">Sohel Imroz</a>  <b>Perception of crisis management and service quality on airline travel intention: What roles do fear of COVID-19, travel anxiety, and risk attitude play?</b>  (Sohel Imroz, Embry-Riddle Aeronautical University; Tamilla Curtis, Embry-Riddle Aeronautical University; Scott Ambrose, Embry-Riddle Aeronautical University)</p>

<p><b>NA10: Airline Economics &amp; Performance 2</b></p> <p><b>Session Chair</b> Seock-Jin Hong University of North Texas</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/89917685243">https://unsw.zoom.us/j/89917685243</a></p>	<p>Paper 1: #12 Presented by <a href="#">Tracy Lamb</a> <b>Gender Bias in The Australian Aviation Industry: Emergent Themes, Possible Strategies.</b> (Tracy Lamb, Embry-Riddle Aeronautical University; Scott Winter, Embry-Riddle Aeronautical University)</p> <p>Paper 2: #94 Presented by <a href="#">Siming Jiang</a> <b>Profitability of Coalition Programs: An Analytical Investigation.</b> (Siming Jiang, University of Manitoba; Changmin Jiang, University of Manitoba)</p> <p>Paper 3: #132 Presented by <a href="#">Seock-Jin Hong</a> <b>Challenges to the Air Cargo Business of Combination Carriers with Two Major Korean Carriers.</b> (Seock-Jin Hong, University of North Texas; Woongyi Kim, Hanseo University; Suman Niranjana, University of North Texas)</p> <p>Paper 4: #250 Presented by <a href="#">Amina Issoufou Anaroua</a> <b>Analysis of US Airline Stocks performance using Latent Dirichlet Allocation (LDA).</b> (Amina Issoufou Anaroua, Embry Riddle Aeronautical University)</p>
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10:30-11:00 AEST | 20:30-21:00 EDT (-1) | 2:30-3:00 CEST | 8:30-9:00 SST | 0:30-1:00 UTC

**BREAK**

11:00-12:30 AEST | 21:00-22:30 EDT (-1) | 03:00-04:30 CEST | 09:00-10:30 SST | 10:00-02:30 UTC

**CONCURRENT SESSION 4 (31 papers/7 parallel streams)**

Region: AUSTRALIA/NZ paper session # 2 (17 papers/4 parallel streams)

ASIA paper session #1 (5 papers/1 stream)

BEIJING paper session #1 (4 papers/1 stream)

HONG KONG paper session #1 (5 papers/1 stream)

**Australia/NZ Paper Session #2**

**17 Papers/4 Parallel Sessions**

**AU3: Aviation Safety & Security 1**

**Session Chair**

Thomas Gary  
University of New South Wales

**Zoom link**

<https://unsw.zoom.us/j/86251460688>

Paper 1: #36

Presented by [Matthew Dunn](#)

**Observed effects of audiovisual cueing on remote pilot manual flying performance**

(Matthew Dunn, UNSW Sydney; Brett Molesworth, UNSW Sydney; Tay Koo, UNSW Sydney; Gabriel Lodewijks, UNSW Sydney)

Paper 2: #39

Presented by [Xinyun Hu](#)

**Exploration of eye-motion features as operator fatigue indicators in active fatigue scenario.**

(Xinyun Hu, University of New South Wales; Gabriel Lodewijks, University of New South Wales)

Paper 3: #42

Presented by [Yan Yan](#)

**The Reporting of Air Crashes in Australian Newspapers.**

(Yan YAN, University of New South Wales; Soufiane Boufous, University of New South Wales)



	<p>Paper 4: #63 Presented by <a href="#">Hang Zhou</a> <b>The effect of noise and workload on dynamic decision-making.</b> (Hang Zhou, The University of New South Wales, Sydney; Brett R. C. Molesworth, The University of New South Wales, Sydney; Marion Burgess, The University of New South Wales, Canberra; Julie Hatfield, The University of New South Wales, Sydney)</p> <p>Paper 5: #131 Presented by <a href="#">Wulin Tian</a> <b>Understanding human factors variability in aviation using the Functional Resonance Analysis Method (FRAM).</b> (Wulin Tian, UNSW; Carlo Caponecchia, UNSW)</p>
<p><b>AU4: Airline Strategy &amp; Management 2</b></p> <p><b>Session Chair</b> Hassan Swidan The University of Sydney Business School</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/87566073315">https://unsw.zoom.us/j/87566073315</a></p>	<p>Paper 1: #85 Presented by <a href="#">Wen-Chun Tseng</a> <b>Benefit of Frequent Flyer Programs: Streams and Attractiveness.</b> (Wen-Chun Tseng, CQ University; Kai Xuan Lee, University of South Australia)</p> <p>Paper 2: #140 Presented by <a href="#">Elita Huynh</a> <b>Examining the Effects of Factors Influencing Young Passengers' Safety Perception in Australian Airlines.</b> (Elita Huynh, University of Southern Queensland; Tarryn Kille, University of Southern Queensland; Seung-Yong Lee, University of Southern Queensland; Yahua Zhang, University of Southern Queensland; Paul Bates, University of Southern Queensland)</p> <p>Paper 3: #193 Presented by <a href="#">Yulian Cao</a> <b>A novel hybrid particle swarm optimization algorithm for airline crew scheduling.</b> (Yulian Cao, University of New South Wales (UNSW Sydney); Gabriel Lodewijks, University of New South Wales (UNSW Sydney))</p> <p>Paper 4: #266 Presented by <a href="#">Hassan Swidan</a> <b>To hedge or not to hedge is not the question – Perceptions of airline managers on how best to do it.</b> (Hassan Swidan, The University of Sydney Business School; Rico Merkert, The University of Sydney Business School)</p>
<p><b>AU5: Aviation &amp; Economic Development</b></p> <p><b>Session Chair</b> Margaret Arblaster RMIT University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/83897955929">https://unsw.zoom.us/j/83897955929</a></p>	<p>Paper 1: #18 Presented by <a href="#">Jiezhuma La</a> <b>Passengers' new experience in door-to-door air travel.</b> (Jiezhuma La, RMIT University; Cees Bil, RMIT University; Iryna Heiets, RMIT University; Ken Anon Lau, Qatar Airways)</p> <p>Paper 2: #59 Presented by <a href="#">Margaret Arblaster</a> <b>The emerging market for space-based air traffic management: will it be competitive?</b> (Margaret Arblaster, RMIT University)</p> <p>Paper 3: #87 Presented by <a href="#">Xinming Li</a> <b>Exploring the temporal travel choices: A joint modelling of how long to travel and when.</b></p>



	<p>(Xinming Li, University of New South Wales; Taha Hossein Rashidi, University of New South Wales; Tay Koo, University of New South Wales)</p> <p>Paper 4: #183 Presented by <a href="#">Bruno Pereira</a> <b>Technological path dependency in Aviation: two decades of innovation and value creation (2000-2019).</b> (Bruno Pereira, Griffith University; Gui Lohmann, Griffith University; Luke Houghton, Griffith University)</p>
<p><b>AU6: Airline Economics &amp; Performance 3</b></p> <p><b>Session Chair</b> Peter Forsyth Monash University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/88638641827">https://unsw.zoom.us/j/88638641827</a></p>	<p>Paper 1: #156 Presented by <a href="#">Yahua Zhang</a> <b>The impact of ICT on airline pricing strategies.</b> (Yahua Zhang, University of Southern Queensland; Guoquan Zhang, University of Southern Queensland; Wenliang Ma, Capital University of Economics and Business)</p> <p>Paper 2: #182 Presented by <a href="#">Hidenobu Matsumoto</a> <b>Emerging Air Traffic Hubs in the Middle East.</b> (Hidenobu Matsumoto, Kwansei Gakuin University; Koji Domae, Kansai Gaidai University)</p> <p>Paper 3: #207 Presented by <a href="#">Benjamin Whittaker</a> <b>Establishing Feasibility for an Independent LCC to Operate SYD-MEL from Historical Market Share.</b> (Benjamin Whittaker, Griffith University)</p> <p>Paper 4: #238 Presented by <a href="#">Peter Forsyth</a> <b>Aviation Fuel Taxation and Emissions: An Economic Analysis.</b> (Peter Forsyth, Monash University)</p>
<p><b>AS1 Air Transport Policy &amp; Regulation 3</b></p> <p><b>Session Chair</b> Achim I. Czerny The Hong Kong Polytechnic University</p> <p><b>Zoom link:</b> <a href="https://unsw.zoom.us/j/89153758861">https://unsw.zoom.us/j/89153758861</a></p>	<p>Paper 1: #13 Presented by <a href="#">Yukihiro Kidokoro</a> <b>Single-till and dual-till regulation: A note and a synthesis of literature.</b> (Yukihiro Kidokoro, National Graduate Institute for Policy Studies; Zhang Anming, University of British Columbia)</p> <p>Paper 2: #19 Presented by <a href="#">Hideki Fukui</a> <b>Managing Multiple Airport Regions via Perimeter Rules: A Theoretical and Empirical Analysis.</b> (Hideki Fukui, Ehime University; Achim I. Czerny, Hong Kong Polytechnic University)</p> <p>Paper 3: #65 Presented by <a href="#">Achim I. Czerny</a> <b>Airport Pricing Versus (Grandfathered) Slots: A Generalization.</b> (Achim I. Czerny, The Hong Kong Polytechnic University; Hao Lang, The Hong Kong Polytechnic University)</p> <p>Paper 4: #246 Presented by <a href="#">Yuichiro Yoshida</a> <b>Jumbo Jet Lights Up the Cities</b> (Yuichiro Yoshida, Hiroshima University; Daiki Kawasaki, BellSystem24; Gaku Ito, Hirshima University)</p>

Paper 5: #283

Presented by Ma. Veronica Domingo

**How air liberalization transforms a destination: A case study of Aklan Province, Philippines.**

(Ma. Veronica Domingo, University of the Philippines; Ramon Benedicto Alampay, University of the Philippines)



<p><b>BEIJING Paper Session 1</b></p>	<p><b>4 Papers/1 Stream</b></p>
<p><b>BJ1 Sustainability in Air Transport 1</b></p> <p><b>Session Chair</b> Hangjun Yang University of International Business and Economics</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/88039678605">https://unsw.zoom.us/j/88039678605</a></p>	<p>Paper 1: #35 Presented by <a href="#">Hangjun Yang</a> <b>Carbon Tax or Sustainable Aviation Fuel Quota.</b> (Hangjun Yang, University of International Business and Economics; Changmin Jiang, University of Manitoba)</p> <p>Paper 2: #97 Presented by <a href="#">Weijun Liao</a> <b>Design and impact analysis of international aviation carbon emission reduction agreement.</b> (Weijun Liao, Beihang University; Ying Fan, Beihang University; Chunan Wang, Beihang University)</p> <p>Paper 3: #106 Presented by <a href="#">Changmin Jiang</a> <b>Synthetic Control Methods for Policy Analysis: Evaluating the Effect of the European Emission Trading System on Aviation Supply</b> (Changmin Jiang, University of International Business and Economics; Tiziana D'Alfonso, Sapienza University of Rome; Yicheng Kang, Bentley University; Sha Liao, University of the Fraser Valley)</p> <p>Paper 4: #235 Presented by <a href="#">Shawei He</a> <b>Analyzing International Air Carbon Negotiation using Time Sensitive Graph Model.</b> (Shawei He, Nanjing University of Aeronautics and Astronautics)</p>
<p><b>HONG KONG Paper Session 1</b></p>	<p><b>5 Papers/1 Stream</b></p>
<p><b>HK1: COVID-19 &amp; Sustainability in Air Transport</b></p> <p><b>Session Chair</b> Kam Hung Ng The Hong Kong Polytechnic University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/89088030942">https://unsw.zoom.us/j/89088030942</a></p>	<p>Paper 1: #53 Presented by <a href="#">Cho Yin Yiu</a> <b>The air transport industry after the COVID-19: A structural equation modelling-based empirical study considering vaccines' popularity and pandemic-associated risk.</b> (Cho Yin YIU, The Hong Kong Polytechnic University; Kam Hung NG, The Hong Kong Polytechnic University; Qinbiao LI, The Hong Kong Polytechnic University)</p> <p>Paper 2: #160 Presented by <a href="#">Kam Hung Ng</a> <b>Aviation emissions reduction by flight plan modelling with re-routing and altitude changes strategies.</b> (Kam Hung Ng, The Hong Kong Polytechnic University)</p> <p>Paper 3: #165 Presented by <a href="#">Hanxiang Zhang</a> <b>Network Developments of the Big Three EU Low Cost Carriers Before and During the Pandemic</b> (Hanxiang Zhang, The Hong Kong Polytechnic University; Ingo Achim Czerny, The Hong Kong Polytechnic University; Wolfgang Grimme, German Aerospace Center; Hans-Martin Niemeier, University of Applied Sciences)</p> <p>Paper 4: #270 Presented by <a href="#">Tiantian Chen</a> <b>Air Travellers' Preference Changes during a Pandemic - An international comparison using a stated preference approach</b></p>

	<p>(Tiantian Chen, The Hong Kong Polytechnic University; Xiaowen Fu, The Hong Kong Polytechnic University; David Hensher, The University of Sydney; Z.C. Li, Huazhong University of Science and Technology; N.N. Sze, The Hong Kong Polytechnic University)</p> <p>Paper 5: #273 Presented by <a href="#">Kam To Ng</a></p> <p><b>Japanese Aviation Market Performance during the COVID-19 Pandemic</b></p> <p>Kam To Ng, The Hong Kong Polytechnic University; Xiaowen Fu, The Hong Kong Polytechnic University; Shinya Hanaoka, Tokyo Institute of Technology; Tae Hoon Oum, University of British Columbia)</p>
<p>12:30-13:00 AEST   22:30-23:00 EDT (-1)   04:30-05:00 CEST   10:30-11:00 SST   02:30-03:00 UTC</p> <p><b>BREAK</b></p>	
<p>13:00-14:30 AEST   23:00(-1)-0:30 EDT   5:00-6:30 CEST   11:00-12:30 SST   3:00-4:30 UTC</p> <p><b>CONCURRENT SESSION 5 (28 papers/7 parallel streams)</b></p> <p>Region: AUSTRALIA/NZ paper session #3 (15 papers/4 parallel streams) BEIJING paper session #2 (9 papers/2 parallel streams) HONG KONG paper session # 2 (4 papers/1 stream)</p>	
<p><b>AUSTRALIA/NZ Paper Session #3</b></p>	<p><b>15 Papers/4 Streams</b></p>
<p><b>AU7: Airport Operations 1</b></p> <p><b>Session Chair</b> Gabriel Lodewijks University of New South Wales</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/85347753130">https://unsw.zoom.us/j/85347753130</a></p>	<p>Paper 1: #30 Presented by <a href="#">Gabriel Lodewijks</a> <b>The environmental impact of taxiing and towing of aircraft at airports.</b> (Gabriel Lodewijks, University of New South Wales; Jan-Henk Welink, Delft University of Technology; Dan Wang, University of New South Wales; Yulian Cao, University of New South Wales)</p> <p>Paper 2: #86 Presented by <a href="#">Sarika Tyagi</a> <b>The impact of biometric technologies on the aviation business and freedom of passengers.</b> (Sarika Tyagi, University of New South Wales; Gabriel Lodewijks, University of New South Wales)</p> <p>Paper 3: #114 Presented by <a href="#">Runqing Zhao</a> <b>Passenger shuttle service network design in an airport.</b> (Runqing Zhao, University of New South Wales; Wei Liu, University of New South Wales; Fangni Zhang, University of Hong Kong; Tay Koo, University of New South Wales; Gabriel Lodewijks, University of New South Wales)</p> <p>Paper 4: #176 Presented by <a href="#">Jong Hae Choi</a> <b>A study on the appropriate fare level for UAM (urban air mobility) airport shuttle service</b> (Jong Hae Choi, Inha University)</p>
<p><b>AU8: Sustainability in Air Transport 2</b></p> <p><b>Session Chair</b> Tim Ryley</p>	<p>Paper 1: #83 Presented by <a href="#">Thanh Ngo</a> <b>Revisiting the Environmental Kuznets Curve (EKC) hypothesis: Evidence from a sustainable tourism economy.</b></p>

<p>Griffith University</p> <p><b>Zoom link</b>  <a href="https://unsw.zoom.us/j/85099256059">https://unsw.zoom.us/j/85099256059</a></p>	<p>(Thanh Ngo, Massey University; Kan Tsui, Massey University; Hannah Nguyen, Marlborough District Council)</p> <p>Paper 2: #184  Presented by <u>Mahla Babagolzadeh</u>  <b>Air transport versus High-Speed Rail: Which is our future travel tool?</b>  (Mahla Babagolzadeh, University of Southern Queensland)</p> <p>Paper 3: #265  Presented by <u>Tim Ryley</u>  <b>An evaluation of approaches to reduce staff air travel emissions: A Griffith University case study.</b>  (Tim Ryley, Griffith University; Caldera Savindi, Griffith University; Spasojevic Bojana, Griffith University)</p> <p>Paper 4: #281  Presented by <u>Benjamin Wu</u>  <b>A balancing act of Institutional Entrepreneurs between politics and economic development: A case study of Korea Emission Trading Scheme and CORSIA efforts by Korean Aviation Industry.</b>  (Benjamin Wu, RMIT University; Ling Mei Cong, RMIT University; Maggie Williams, RMIT University)</p>
<p><b>AU9: Air Transport Policy &amp; Regulation 4</b></p> <p><b>Session Chair</b>  Rico Merkert  The University of Sydney Business School</p> <p><b>Zoom link</b>  <a href="https://unsw.zoom.us/j/85166147711">https://unsw.zoom.us/j/85166147711</a></p>	<p>Paper 1: #84  Presented by <u>Vinolia Salesi</u>  <b>Strategies for South Pacific Region to address future pandemics.</b>  (Vinolia Salesi, Massey University; Wai Hong Kan Tsui, Massey University; Xiaowen Fu, Hong Kong Polytechnic University; Andrew Gilbey, Massey University)</p> <p>Paper 2: #95  Presented by <u>Hanjun Wu</u>  <b>Do subsidised air transport activities lead to changes in regional wellbeing? Regional studies of New Zealand and Taiwan.</b>  (Hanjun Wu, Massey University; Kan Wai Hong Tsui, Massey University; Thanh Ngo, Massey University; Lin Yi-Hsin, National Taichung University of Science and Technology)</p> <p>Paper 3: #186  Presented by <u>David Orr</u>  <b>Current airspace management issues in TimorLeste: options for greater independence through sovereign upper airspace management and control.</b>  (David Orr, University of Southern Queensland; Tarryn Kille, University of Southern Queensland; Seung-Yong Lee, University of Southern Queensland; Yahua Zhang, University of Southern Queensland; Paul Bates, University of Southern Queensland)</p> <p>Paper 4: #288  Presented by <u>Rico Merkert</u>  <b>Strategic first mover advantage considerations and WTP for LAAM services for drone operations.</b>  (Rico Merkert, The University of Sydney Business School; Matthew Beck, USYD; James Bushell, USYD)</p>

<p><b>AU10: Airline Network Development</b></p> <p><b>Session Chair</b> Tommy Cheung Swinburne University of Technology</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/84433857971">https://unsw.zoom.us/j/84433857971</a></p>	<p>Paper 1: #27 Presented by <a href="#">Bojana Spasojevic</a> <b>Air route development – Lessons from Australian market.</b> (Bojana Spasojevic, Griffith University; Gui Lohmann, Griffith University)</p> <p>Paper 2: #150 Presented by <a href="#">Tommy Cheung</a> <b>Assessment of Hub Airports' Self Connection Potentials.</b> (Tommy Cheung, Swinburne University of Technology; Collin W. H. Wong, Hang Seng University of Hong Kong; Zheng Lei, Swinburne University of Technology)</p> <p>Paper 3: #206 Presented by <a href="#">Daniel Lambeth</a> <b>A spatial analysis of the network structure of FedEx and the effects of COVID-19.</b> (Daniel Lambeth, Swinburne University of Technology; Lei Zheng, Swinburne University of Technology in Melbourne; Tommy Cheung, Swinburne University of Technology in Melbourne)</p>
<p><b>BEIJING Paper Session 2</b></p>	<p><b>9 Papers / 2 Streams</b></p>
<p><b>BJ2: Air Transport and COVID-19 5</b></p> <p><b>Session Chair</b> Yonglei Jiang Beijing Jiaotong University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/88499961827">https://unsw.zoom.us/j/88499961827</a></p>	<p>Paper 1: #64 Presented by <a href="#">Yonglei Jiang</a> <b>Impacts of COVID-19 pandemic on the travel patterns of ARIS passengers: the case of Dalian Airport.</b> (Yonglei Jiang, Beijing Jiaotong University; Shunan Yu, Dalian Maritime University; Wenqian Zou, Civil Aviation University of China; Wen Jiang, Chongqing University)</p> <p>Paper 2: #263 Presented by <a href="#">Yongling Li</a> <b>Impacts of COVID-19 on domestic air transportation in China.</b> (Yongling Li, Chinese Academy of Sciences; Jiaoe Wang, Chinese Academy of Sciences; Jie Huang, Chinese Academy of Sciences)</p> <p>Paper 3: #274 Presented by <a href="#">Maozhu Liao</a> <b>Network change of low-cost carriers during the Post COVID-19 Era.</b> (Maozhu Liao, Sichuan University; Chuntao Wu, Sichuan University; Hongmeng Yan, Sichuan University)</p> <p>Paper 4: #282 Presented by <a href="#">Lei Bian</a> <b>Assessing the impact of local Covid-19 outbreak on air traffic through machine learning method.</b> (Lei Bian, TravelSky Mobile Technology Limited; Linfeng Zhang, University of International Business and Economics; Hangjun Yang, University of International Business and Economics; Kun Wang, University of International Business and Economics)</p>
<p><b>BJ3 Airline Operations 2</b></p> <p><b>Session Chair</b> Linfeng Zhang University of International Business and Economics</p>	<p>Paper 1: #2 Presented by <a href="#">Xiaoqian Sun</a> <b>Competitive Integrated Flight Schedule Design.</b> (Xiaoqian Sun, Beihang University; Yifan Xu, Beihang University; Sebastian Wandelt, Beihang University; Nicole Adler, Hebrew University of Jerusalem)</p> <p>Paper 2: #62</p>

<p><b>Zoom link</b>  <a href="https://unsw.zoom.us/j/84459380922">https://unsw.zoom.us/j/84459380922</a></p>	<p>Presented by <u>Linfeng Zhang</u>  <b>Identification and Characterization of Aircraft Circling.</b>  (Linfeng Zhang, University of International Business and Economics; Hangjun Yang, University of International Business and Economics; Kun Wang, University of International Business and Economics; Lei Bian, TravelSky Mobile Technology Limited; Xian Zhang, TravelSky Mobile Technology Limited; Yu Liu, TravelSky Mobile Technology Limited)</p> <p>Paper 3: #70  Presented by <u>Junru Li</u>  <b>The morphological structure and influence factors analysis of China's civil aviation freight transport network.</b>  (Junru Li, Beijing Jiaotong University; Hongchang Li, Beijing Jiaotong University; Xiaojun Zhao, Beijing Jiaotong University)</p> <p>Paper 4: #215  Presented by <u>Chunxiao Zhang</u>  <b>UAMeLRP: Towards an integrated location-routing problem with recharging for Urban Air Mobility.</b>  (Chunxiao Zhang, Beihang University; Xin Tan, Beihang University; Xiaoqian Sun, Beihang University; Sebastian Wandelt, Beihang University)</p> <p>Paper 5: #267  Presented by <u>Wenjing Xue</u>  <b>The operation of labor charter flights under the influence of COVID-19 pandemic in China.</b>  (Wenjing Xue, Sichuan University; Chuntao Wu, Sichuan University; Hongmeng Yan, Sichuan University; Maozhu Liao, Sichuan University)</p>
<p><b>HONG KONG Paper Session #2</b></p>	<p><b>4 Papers/1 Stream</b></p>
<p><b>HK2: Airline and Airport Economics</b></p> <p><b>Session Chair</b>  Xiaowen Fu  The Hong Kong Polytechnic University</p> <p><b>Zoom link</b>  <a href="https://unsw.zoom.us/j/81084921946">https://unsw.zoom.us/j/81084921946</a></p>	<p>Paper 1: #34  Presented by <u>Jue Wang</u>  <b>Estimating the impacts of heterogeneous decision rules on airfare choice.</b>  (Jue Wang, The Hong Kong Polytechnic University; Meifeng Luo, The Hong Kong Polytechnic University)</p> <p>Paper 2: #55  Presented by <u>Hao Lang</u>  <b>A Newsvendor with Endogenous Understocking Cost: Insights from the Airlines Leasing Industry.</b>  (Hao Lang, The Hong Kong Polytechnic University; Benny Mantin, University of Luxembourg)</p> <p>Paper 3: #107  Presented by <u>Hongyi Gu</u>  <b>The mediation effect of airfare in air-rail competition.</b>  (Hongyi Gu, the Hong Kong Polytechnic University; Yulai Wan, the Hong Kong Polytechnic University)</p> <p>Paper 4: # 301  Presented by <u>Weizhun Zhao</u>  <b>Quantifying the Positive Externality of Airports -Spatial economic analysis with satellite data.</b>  (Weizhun Zhao, City University of Hong Kong; Xiaowen Fu, Hong Kong Polytechnic University; Lishuai Li, City University of Hong Kong)</p>

14:30-15:00 AEST | 0:30-1:00 EDT | 6:30-7:00 CEST | 12:30-13:00 SST | 4:30-5:00 UTC

## BREAK

15:00-18:00 AEST | 01:00-04:00 EDT | 07:00-10:00 CEST | 13:00-16:00 SST | 05:00-08:00 UTC

## PH.D. STUDENT AND JUNIOR FACULTY WORKSHOP 2

### 1. Data Analytics Tools for Air Transport Research

Peter Jackson  
Singapore University of Technology and Design

**\*\*Pre-work for the workshop (installing RStudio) is expected for full participation**  
[http://gettingdesignright.com:3838/GDR-Educate/01\\_workshop-on-data-analytics.html](http://gettingdesignright.com:3838/GDR-Educate/01_workshop-on-data-analytics.html)

### 2. Airport Networks

Achim Czerny  
Hong Kong Polytechnic University

#### Session Chair

Christian Bontemps  
ENAC & Toulouse School of Economics

#### Zoom Webinar Link

<https://unsw.zoom.us/j/88448076509>

16:00-17:30 AEST | 02:00-03:30 EDT | 8:00-09:30 CEST | 14:00-15:30 SST | 06:00-07:30 UTC

## CONCURRENT SESSION 6 (24 papers/6 parallel streams)

Region: ASIA paper session #2 (20 papers/5 parallel streams)  
BEIJING paper session #3 (4 papers/1 stream)

### Asia Paper Session #1

### 16 Papers/4 Parallel Streams

#### AS2: Airport Strategy & Management 2

##### Session Chair

Ming-Hsin Lin  
Osaka University of Economics

##### Zoom link

<https://unsw.zoom.us/j/81434797634>

Paper 1: #141

Presented by [Chi Che Hsieh](#)

#### **Investigating Passenger Willingness to Use Soft Biometric in Smart Airports Based on The Combined UTAUT Model.**

(Chi Che Hsieh, National Taiwan Ocean University (N.T.O.U); Jin Ru Yen, National Taiwan Ocean University (N.T.O.U); Hsiao Yun Lee, National Taiwan Ocean University (N.T.O.U))

Paper 2: #180

Presented by [Hsiao-Yun Lee](#)

#### **Exploring the correlations between service quality and the degree of airport intelligence.**

(Hsiao-Yun Lee, National Taiwan Ocean University; Jin-Ru Yen, National Taiwan Ocean University; Chi-Che Hsieh, National Taiwan Ocean University)

Paper 3: #204

Presented by [Youngsoo Jung](#)

#### **Knowledge Management of Capital Airport Facility: Variables for Theory and Implementation.**

(Youngsoo JUNG, Myongji University; Dagem D Gebremichael, Myongji University; Seunghee Kang, Myongji University; Yunsub Lee, Myongji University; Chulho Kim, Incheon International Airport Corporation; Wooksu Shin, Incheon International Airport Corporation)

Paper 4: #262

Presented by [Ming-Hsin Lin](#)

#### **Pricing regime choices for international airports: A rationale for the non-discrimination principle.**



	(Ming-Hsin Lin, Osaka University of Economics)
<p><b>AS3: Air Transport &amp; COVID-19 6</b></p> <p><b>Session Chair</b> Munekatsu Usami Osaka University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/88097108139">https://unsw.zoom.us/j/88097108139</a></p>	<p>Paper 1: #205 Presented by <a href="#">Geoffrey Clark</a> <b>Forecasting international airline travel to and from Japan in the COVID-19 era and beyond.</b> (Geoffrey Clark, MicroStrategy Japan)</p> <p>Paper 2: #233 Presented by <a href="#">Munekatsu Usami</a> <b>Impact Evaluation of COVID-19 on Domestic Flights in Japan -Implication for Resilience from COVID-19.</b> (Munekatsu Usami, Osaka University; Nobuo Akai, OSAKA UNIVERSITY)</p> <p>Paper 3: #294 Presented by <a href="#">Hayato Noda</a> <b>Analysis of the impact of COVID-19 on the domestic flight operations of legacy carriers in Japan.</b> (Hayato Noda, National Institute of Technology, Kure College; Asuka Kake, Nagaoka University of Technology; Yusuke Kanda, National Institute of Technology, Kure College; Yuta Takao, National Institute of Technology, Kure College; Kazuki Unemoto, West Nippon Expressway Company)</p> <p>Paper 4: #295 Presented by <a href="#">Yuta Takao</a> <b>Analysis of the impact of COVID-19 on the international flight operations of Japanese legacy carriers.</b> (Yuta Takao, National Institute of Technology, Kure college; Hayato Noda, National Institute of Technology, Kure College; Asuka Kake, Nagaoka University of Technology; Yusuke Kanda, National Institute of Technology, Kure College)</p>
<p><b>AS4: Marketing &amp; Consumer Behavior in Air Transport 2</b></p> <p><b>Session Chair</b> Colin Chi Hang Law Singapore Institute of Technology</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/86425675180">https://unsw.zoom.us/j/86425675180</a></p>	<p>Paper 1: #96 Presented by <a href="#">Colin Chi Hang Law</a> <b>The Impact of Airline Service Quality on Customer Satisfaction and Repurchase Intention: Evidence from Air Transportation Sector of Lao People's Democratic Republic.</b> (Colin Chi Hang Law, Singapore Institute of Technology; Yahua Zhang, University of Southern Queensland)</p> <p>Paper 2: #100 Presented by <a href="#">Kuancheng Huang</a> <b>An Airline Revenue Management Model with the Integration of an Alternate Sales Channel.</b> (Kuancheng Huang, National Chiao Tung University; Pochen Hwang, National Chiao Tung University)</p> <p>Paper 3: #130 Presented by <a href="#">Ching-Wen Lee</a> <b>Passenger perceived risks to the Covid-19 prevention measures at taking flights.</b> (Ching-Wen Lee, National Taiwan Ocean University; Hua-An Lu, National Taiwan Ocean University)</p> <p>Paper 4: #202 Presented by <a href="#">Kazuyuki Takada</a> <b>Research on the behavioral intention of air passengers encountering sudden flight cancelation.</b></p>



	(Kazuyuki Takada, Tokyo Denki University; Kota Miyauchi, The Institute of Behavioral Sciences)
<p><b>AS5: Sustainability in Air Transport 3</b></p> <p><b>Session Chair</b> Masamitsu Onishi Kyoto University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/82097546447">https://unsw.zoom.us/j/82097546447</a></p>	<p>Paper 1: #154 Presented by <a href="#">Yasuhiro Miyahira</a> <b>Does a hybrid-electric propulsion aircraft improve sustainability of regional air transportation system?</b> (Yasuhiro Miyahira, Ritsumeikan University; Nobuaki Minato, Ritsumeikan University)</p> <p>Paper 2: #173 Presented by <a href="#">Masamitsu Onishi</a> <b>Assessment of accommodation capacity for aircrafts evacuation against a large volcanic eruption.</b> (Masamitsu Onishi, Kyoto University; Koreharu Kurahara, Maeda Corporation; Masato Iguchi, Kyoto University; Mikio Takebayashi, Kobe University)</p> <p>Paper 3: #175 Presented by <a href="#">Fang Yuan Chen</a> <b>Experiences and performance of female pilots in Taiwan: a triangular assessment.</b> (Fang Yuan Chen, Feng Chia University; Ting-Jyun Jhene, Feng Chia University; Chien-Hang Cheng, National Kaoshiung University of Hospitality and Tourism; Mao-Chang Ti, Dahan Institute of Technology)</p> <p>Paper 4: #201 Presented by <a href="#">Kiyotaka Yuguchi</a> <b>Replacing domestic flights with high-speed and conventional trains to reduce greenhouse gas emissions: the case of Japan.</b> (Kiyotaka Yuguchi, Sagami Women's University)</p>
<b>BEIJING Paper Session #3</b>	<b>9 Papers/2 Streams</b>
<p><b>BJ4 Intermodal Operations &amp; Modal Competition</b></p> <p><b>Session Chair</b> Shuli Liu Beijing Jiaotong University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/88666777312">https://unsw.zoom.us/j/88666777312</a></p>	<p>Paper 1: #47 Presented by <a href="#">Yilin Chen</a> <b>Environmental Implications of Expanding Intercity Transport Network through High-speed Rail or Low-cost Carrier.</b> (Yilin Chen, University of International Business and Economics; Hangjun Yang, University of International Business and Economics; Kun Wang, University of International Business and Economics; Lin Guo, University of International Business and Economics)</p> <p>Paper 2: #61 Presented by <a href="#">Xiang Zhang</a> <b>The Impact of Air-rail Intermodality on Urban Economic Development and Industry Structure—An Empirical Study Based on the Yangtze River Delta Region</b> (Xiang Zhang, Anhui Normal University; Qiong Zhang, Anhui Normal University)</p> <p>Paper 3: #75 Presented by <a href="#">Chunan Wang</a> <b>Effects of Airline Entry on High-Speed Rail</b> (Chunan Wang, Beihang University; Changmin Jiang, University of Manitoba)</p>

	<p>Paper 4: #209 Presented by <u>Shuli Liu</u> <b>Effects of competition from high-speed rail on airline service quality.</b> (Shuli Liu, Beijing Jiaotong University)</p> <p>Paper 5: #213 Presented by <u>Qi Wu</u> <b>Development of Multi-airport System: An Empirical Study on China's Yangtze River Delta Airport Cluster.</b> (Qi Wu, Beihang University; Xiaoqian Sun, Beihang University; Sebastian Wandelt, Beihang University)</p>
<p><b>BJ5: Airline Economics &amp; Performance 4</b></p> <p><b>Session Chair</b> Changmin Jiang University of International Business and Economics</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/87839155067">https://unsw.zoom.us/j/87839155067</a></p>	<p>Paper 1: #49 Presented by <u>Changmin Jiang</u> <b>Sustainability Reporting of Airlines: Performances and Driving Factors in Environmental Aspect.</b> (Changmin Jiang, University of International Business and Economics; Chen Xudong, University of Manitoba)</p> <p>Paper 2: #151 Presented by <u>Meng Hou</u> <b>A theoretical study on the airlines-within-airlines strategy --- the adoption of new C919 aircraft.</b> (Meng Hou, University of International Business and Economics; Yilin Chen, University of International Business and Economics; Kun Wang, University of International Business and Economics; Hangjun Yang, University of International Business and Economics)</p> <p>Paper 3: #212 Presented by <u>David Yu</u> <b>Aircraft ABS Characteristics From a Portfolio Perspective.</b> (David Yu, New York University Shanghai)</p> <p>Paper 4: #252 Presented by <u>Wenliang Ma</u> <b>The Impacts of Exchange Rate Fluctuation on International Air Passenger Transport Market –Study on the China's International Airline Market.</b> (Wenliang Ma, Capital University of Economics and Business; Kun Wang, University of International Business and Economics; Keke Fan, University of International Business and Economics)</p>
<p>17:30-18:00 AEST   03:30-04:00 EDT   09:30-10:30 CEST   15:30-16:00 SST   07:30-08:00 UTC</p> <p><b>BREAK</b></p>	



**CONCURRENT SESSION 7 (30 papers/7 parallel streams)**

Region: ASIA paper session #2 (21 papers/5 parallel streams)

EUROPE paper session # 2 (4 papers/1 stream)

BEIJING paper session #4 (5 papers/1 stream)

<b>ASIA Paper Session #2</b>	<b>22 Papers/5 Parallel Streams</b>
<p><b>AS6: Air Traffic Control 1</b></p> <p><b>Session Chair</b> Shinya Hanaoka Tokyo Institute of Technology</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/89888955669">https://unsw.zoom.us/j/89888955669</a></p>	<p>Paper 1: #115 Presented by <a href="#">Tong Chen</a> <b>Dynamic Optimization of Airport Surface Operation in Tokyo International Airport.</b> (Tong Chen, Tokyo Institute of Technology; Shinya Hanaoka, Tokyo Institute of Technology)</p> <p>Paper 2: #123 Presented by <a href="#">Yu-Hsin Huang</a> <b>Air traffic flow profiling between Hong Kong (HKG) and Taoyuan (TPE) airports.</b> (Yu-Hsin Huang, National Taiwan Ocean University; Hua-An Lu, National Taiwan Ocean University)</p> <p>Paper 3: #142 Presented by <a href="#">Shaorui Ren</a> <b>Slot Determination for Jeju International Airport Using a Microscopic Simulation Model.</b> (Shaorui Ren, Korea Aerospace University; Hojong Baik, Korea Aerospace University)</p> <p>Paper 4: #163 Presented by <a href="#">Aleksandra Solodova</a> <b>Air Traffic Management against Stratovolcano Eruption: Analysis of the routes in the event of Taal Volcano eruption.</b> (Aleksandra Solodova, Kobe University; Mikio Takebayashi, Kobe University)</p>
<p><b>AS7: Airport Economics &amp; Performance 2</b></p> <p><b>Session Chair</b> Nobuaki Endo Tokyo University of Marine Science and Technology</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/89213892315">https://unsw.zoom.us/j/89213892315</a></p>	<p>Paper 1: #135 Presented by <a href="#">Katsuya Hihara</a> <b>Analysis of Relationship about Airport and Airline under the Third Party Influence.</b> (Katsuya Hihara, TMU / UTokyo)</p> <p>Paper 2: #208 Presented by <a href="#">Muneki Yokomi</a> <b>The Impacts of Passenger’s Travel Class on Airport Non Aeronautical Revenues: An Empirical Study in the UK.</b> (Muneki Yokomi, Kindai University)</p> <p>Paper 3: #237 Presented by <a href="#">Koji Adachi</a> <b>Does airline competition really influence airport efficiency? The case of Japanese airports.</b> (Koji Adachi, OSAKA SANGYO UNIVERSITY; Yeonjung Song, Osaka University)</p> <p>Paper 4: #261 Presented by <a href="#">Nobuaki Endo</a> <b>The effect of airport marketing and promotion : case of Japanese local airports.</b> (Nobuaki Endo, Tokyo University of Marine Science and Technology)</p>



<p><b>AS8: Airline Economics &amp; Performance 5</b></p> <p><b>Session Chair</b> Volodymyr Bilotkach Singapore Institute of Technology</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/88461188712">https://unsw.zoom.us/j/88461188712</a></p>	<p>Paper 1: #16 Presented by <a href="#">Anthony Webber</a> <b>The Price Elasticity of Global Jet Fuel Demand: Theory and Practise</b> (Anthony Webber, University of New South Wales)</p> <p>Paper 2: #79 Presented by <a href="#">Chae Hwan Lim</a> <b>A two-stage methodology for resources reallocation of air transport routes.</b> (Chae Hwan LIM, INHA University; Hun-Koo Ha, INHA University; Yoon Hyo Jin, INHA University; Ha Junsu, INHA University)</p> <p>Paper 3: #81 Presented by <a href="#">Volodymyr Bilotkach &amp; Bassam Tariq</a> <b>Impact of Transatlantic Joint Ventures on Flight Scheduling.</b> (Volodymyr Bilotkach, Singapore Institute of Technology; Bassam Tariq, University of Antwerp)</p> <p>Paper 4: #104 Presented by <a href="#">Hsing Pang Huang</a> <b>Survival analysis for factors affecting airline phase-out decision of aircraft.</b> (Hsing Pang Huang, National Taiwan Ocean University; Hua-An Lu, National Taiwan Ocean University)</p> <p>Paper 5: #133 Presented by <a href="#">Ryohei Yamamoto</a> <b>Multimarket Contacts and Firm Asymmetries: Japanese Domestic Airline Markets.</b> (Ryohei Yamamoto, Kansai Gaidai University; Ujo Goto, University of Kitakyushu)</p>
<p><b>AS9: Airport Strategy &amp; Management 3</b></p> <p><b>Session Chair</b> James Liou National Taipei University of Technology</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/88123732556">https://unsw.zoom.us/j/88123732556</a></p>	<p>Paper 1: #14 Presented by <a href="#">James Liou</a> <b>Building an assessment model to measure the airport resilience.</b> (James Liou, National Taipei University of Technology; Chun-Nen Huang, Central Police University; Huai-Wei Lo, Chaoyang University of Technology; Fu-Jung Chang, National Taipei University of Technology)</p> <p>Paper 2: #67 Presented by <a href="#">Antunes Ribeiro Nuno</a> <b>Passenger-centric Slot Allocation at Schedule-coordinated Airports.</b> (Antunes Ribeiro Nuno, Singapore University of Technology and Design; Phillip Schmedeman, Massachusetts Institute of Technology; Alexandre Jacquillat, Massachusetts Institute of Technology; Sebastian Biroolini, University of Bergamo)</p> <p>Paper 3: #92 Presented by <a href="#">Zhenwei Gong</a> <b>Airport expansion with responsive airlines: the effects on congestion, competition and welfare.</b> (Zhenwei Gong, The University of Hong Kong; Fangni Zhang, The University of Hong Kong)</p> <p>Paper 4: #247 Presented by <a href="#">Mengfei Cao</a> <b>Developing a passenger-centred airport: a case study of Urumqi Airport in Xinjiang, China.</b> (Mengfei Cao, Tongji University; Linbo Li, Tongji University)</p>

<p><b>AS10: Air Transport Demand 4</b></p> <p><b>Session Chair</b> Makoto Tsukai Hiroshima University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/85762379024">https://unsw.zoom.us/j/85762379024</a></p>	<p>Paper 1: #93 Presented by <u>U Kei Kuok</u> <b>Reinvestigating Air Transport and Tourism Demand in Australia: A Panel Cointegration Approach.</b> (U Kei Kuok, University of Macau; Tay Koo, University of New South Wales (UNSW Sydney); Christine Lim, University of Macau)</p> <p>Paper 2: #99 Presented by <u>Chieh-Hua Wen</u> <b>Identifying customer preferences of a new metro line serving airport access.</b> (Chieh-Hua Wen, Feng Chia University; Hung-Ming Chen, Feng Chia University; Yung Chuan Hsieh, Feng Chia University)</p> <p>Paper 3: #101 Presented by <u>Collin W.H. Wong</u> <b>A Connectivity-Based Methodology for New Air Route Identification.</b> (Collin W. H. Wong, Hang Seng University of Hong Kong; Tommy Cheung, Swinburne University of Technology; Anming Zhang, University of British Columbia)</p> <p>Paper 4: #219 Presented by <u>Makoto Tsukai</u> <b>An application of base insertion method for air passengers in Japan: a longitudinal comparison.</b> (Makoto Tsukai, Hiroshima University)</p> <p>Paper 5: #287 Presented by <u>Nur Fahimah Mat Salleh</u> <b>Simulated UAV Flight Test for Transporting Medical Aid Kit.</b> (Nur Fahimah Mat Salleh, Universiti Teknologi MARA; Wan Mazlina Wan Mohamed, Universiti Teknologi MARA; Rizal Effendy Mohd Nasir, Universiti Teknologi MARA)</p>
<p><b>BEIJING Paper Session #4</b></p>	<p><b>5 Papers/1 Stream</b></p>
<p><b>BJ6: Air Transport Policy &amp; Regulation 5</b></p> <p><b>Session Chair</b> Kun Wang University of International Business and Economics</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/85679035261">https://unsw.zoom.us/j/85679035261</a></p>	<p>Paper 1: #155 Presented by <u>Qing Ji</u> <b>Social welfare effects of aviation liberalization: empirical evidence from Central Asia and China.</b> (Qing Ji, Beihang University; ying Fan, Beihang University; chunan Wang, Beihang University)</p> <p>Paper 2: #192 Presented by <u>Anrong Lin</u> <b>Influence of transportation network on spatial-temporal variation in transmission of COVID-19 in China.</b> (Anrong Lin, Nanjing University of Aeronautics and Astronautics; Jing Lu, Nanjing University of Aeronautics and Astronautics; Changmin Jiang, University of Manitoba)</p> <p>Paper 3: #211 Presented by <u>Peihong Chen</u> <b>Testing causality in the long run relationship between economic growth and passenger transport in China.</b> (Peihong Chen, Beijing Jiaotong University; Jie Zhang, Beijing Jiaotong University)</p> <p>Paper 4: #236</p>

	<p>Presented by <a href="#">Shiyuan Zheng</a>  <b>Competition between airport mall and downtown store under government's incomplete information.</b>          (Shiyuan Zheng, Shanghai Maritime University; Wang Kun, University of International Business and Economics; Fu Xiaowen, Hong Kong Polytechnic University)</p> <p>Paper 5: #298          Presented by <a href="#">Kun Wang</a>  <b>Airport-Airline Vertical Relationship on Airport Efficiency.</b>          (Kun Wang, University of International Business and Economics; Yap Yin Choo, British Columbia Institute of Technology)</p>
<p><b>EUROPE Paper Session #2</b></p>	<p><b>4 Papers/1 Stream</b></p>
<p><b>EU7: Aviation Education Special Session 2</b></p> <p><b>Session Chair</b>          Yahua Zhang          University of Southern Queensland</p> <p><b>Zoom link</b>  <a href="https://unsw.zoom.us/j/82414908481">https://unsw.zoom.us/j/82414908481</a></p>	<p>Paper 1: #76          Presented by <a href="#">Nipuna Edirisinghe</a>  <b>Protecting resources: An exploratory qualitative study of aviation student behaviours in career management and planning in response to career shock.</b>          (Nipuna Edirisinghe, University of Southern Queensland; Tarryn Kille, University of Southern Queensland; Seung-Yong Lee, University of Southern Queensland; Yahua Zhang, University of Southern Queensland; Paul Bates, University of Southern Queensland)</p> <p>Paper 2: #244          Presented by <a href="#">Gary Thomas</a>  <b>Aviation Flight Training, the Common Faults associated with Ab-Initio pilot training.</b>          (Gary Thomas, University of New South Wales)</p> <p>Paper 3: #278          Presented by <a href="#">Gerasimos Kontos</a>  <b>Aviation Ecosystem Disruption from Emerging Technologies and Educational Challenges for Aviation People.</b>          (Gerasimos Kontos, University of the Aegean; Triant Flouris, N/A)</p> <p>Paper 4: #297          Presented by <a href="#">Triant Flouris</a>  <b>Intercultural-communication risk strategy in air transportation business: Developing 21st century Skills for Young Aviation Professionals.</b>          (Triant Flouris, Metropolitan College; Ayse Yilmaz, Faculty of Aeronautics and Astronautics Eskisehir Technical University (ESTU))</p>
<p>19:30-20:00 AEST   05:30-06:00 EDT   11:30-12:00 CEST   17:30-18:00 SST   09:30-10:00 UTC</p> <p><b>BREAK</b></p>	
<p>20:00-21:30 AEST   6:00-7:30 EDT   12:00-13:30 CEST   18:00-19:30 SST   10:00-11:30 UTC</p> <p><b>CONCURRENT SESSION 8 (27 papers/6 parallel streams)</b></p> <p>Region: EUROPE paper session # 3</p>	
<p><b>EU8: Airline Operations 3</b></p> <p><b>Session Chair</b>          Sebastian Birolini          University of Bergamo</p>	<p>Paper 1: #88          Presented by <a href="#">Shan Pei</a>  <b>A heuristic method for the irregular flight recovery problem.</b>          (Shan Pei, Beijing Normal University; Boyu Zhang, Beijing Normal University; huiling Wang, Beijing Normal University; nianyi Wang,</p>



<p><b>Zoom link</b>  <a href="https://unsw.zoom.us/j/87341971254">https://unsw.zoom.us/j/87341971254</a></p>	<p>Beijing Normal University)</p> <p>Paper 2: #121  Presented by <a href="#">Sebastian Birolini</a>  <b>A Tactical Integrated Connection Planning and Passenger Allocation Model for Low-Cost Carriers.</b>  (Sebastian Birolini, University of Bergamo; Emanuele Besana, University of Bergamo; Mattia Cattaneo, University of Bergamo; Renato Redondi, University of Bergamo; Jose Maria Sallan, Universitat Politecnica de Catalunya)</p> <p>Paper 3: #144  Presented by <a href="#">Augustin Lesgourgues</a>  <b>Time-of-day preferences: the effect of airline delays on the ex-post social cost of schedule displacement time.</b>  (Augustin Lesgourgues, Paris-Dauphine University - PSL.; Estelle Malavolti, Toulouse School of Economics (TSE), French University of Civil Aviation (ENAC), Toulouse University.)</p> <p>Paper 4: #195  Presented by <a href="#">Christopher Lonzius</a>  <b>Aircraft Routing Patterns in the U.S. Airspace and their Impact on Air Traffic Delays.</b>  (Christopher Lonzius, TU Darmstadt; Anne Lange, University of Luxemburg)</p> <p>Paper 5: #217  Presented by <a href="#">Michael Husemann</a>  <b>Development of a Dispatching Algorithm for Urban Air Mobility Systems.</b>  (Michael Husemann, RWTH Aachen University; Eike Stumpf, RWTH Aachen University)</p>
<p><b>EU9: Airline Economics &amp; Performance 6</b></p> <p><b>Session Chair</b>  Christian Bontemps  ENAC &amp; Toulouse School of Economics</p> <p><b>Zoom link</b>  <a href="https://unsw.zoom.us/j/82348561391">https://unsw.zoom.us/j/82348561391</a></p>	<p>Paper 1: #171  Presented by <a href="#">Davide Scotti</a>  <b>The effects of code sharing on air fares in the intra-African aviation market.</b>  (Davide Scotti, University of Bergamo; Andrea Gualini, University of Bergamo)</p> <p>Paper 2: #256  Presented by <a href="#">Peter Bulckaert</a>  <b>Lessons from airline deregulation and airline bankruptcy for the key success factors for start-up airlines, a literature review.</b>  (Peter Bulckaert, University of Antwerp; Eddy Van de Voorde, University of Antwerp; Dewulf Wouter, University of Antwerp)</p> <p>Paper 3: #258  Presented by <a href="#">Christian Bontemps</a>  <b>Entry game with heterogeneous firms for studying market structure.</b>  (Christian Bontemps, ENAC &amp; Toulouse School of Economics)</p> <p>Paper 4: #264  Presented by <a href="#">Thijs Boonekamp</a>  <b>Market stimulation of new airline routes.</b>  (Thijs Boonekamp, SEO Amsterdam Economics; Gerben de Jong, SEO Amsterdam Economics / VU University Amsterdam / Hebrew University of Jerusalem)</p>



<p><b>EU10: Sustainability in Air Transport 4</b></p> <p><b>Session Chair</b> Hans-Martin Niemeier Bremen University of Applied Sciences</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/84368455098">https://unsw.zoom.us/j/84368455098</a></p>	<p>Paper 1: #102 Presented by <u>Rene Puls</u> <b>The Role of Airports in the Transition Towards Environmentally Sustainable Aviation.</b> (Rene Puls, University of St. Gallen; Ivan Vuckovic, University of St. Gallen; Andreas Wittmer, University of St. Gallen)</p> <p>Paper 2: #111 Presented by <u>Stefan Baumeister</u> <b>Electric Aircraft – Aviation’s Pathway towards Zero Emissions?</b> (Stefan Baumeister, University of Jyväskylä; Tim Ryley, Griffith University; Abraham Leung, Griffith University)</p> <p>Paper 3: #119 Presented by <u>Aristi Karagkouni</u> <b>Functional analysis for evaluating operators’ performance towards airport sustainable development.</b> (Aristi Karagkouni, Democritus University of Thrace; Dimitrios Dimitriou, Democritus University of Thrace)</p> <p>Paper 4: #227 Presented by <u>Shangrong Chen</u> <b>Adopting hydrogen technology in air transport: An evolutionary game theory approach.</b> (Shangrong Chen, École nationale de l’aviation civile (ENAC) (French Civil Aviation University); Romain Mongeau, École nationale de l’aviation civile (ENAC) (French Civil Aviation University) ; Estelle Malavolti, École nationale de l’aviation civile (ENAC) (French Civil Aviation University))</p> <p>Paper 5: #293 Presented by <u>Hans-Martin Niemeier</u> <b>Can optimizing capacity and new capacity at airports help improve fuel and emissions efficiency?</b> (Hans-Martin Niemeier, Bremen University of Applied Sciences; Peter Forsyth, Monash University)</p>
<p><b>EU11: Air Transport and COVID-19 7</b></p> <p><b>Session Chair</b> Chiara Morlotti University of Bergamo</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/81633594816">https://unsw.zoom.us/j/81633594816</a></p>	<p>Paper 1: #24 Presented by <u>Maxim Fokeev</u> <b>COVID-19: Ways and drivers of value proposition transformation of Russian airlines.</b> (Maxim Fokeev, Higher School of Economics; Nikolay Filinov, Higher School of Economics)</p> <p>Paper 2: #137 Presented by <u>Chiara Morlotti</u> <b>Airlines’ pricing strategies to face COVID-19 demand shocks.</b> (Chiara Morlotti, University of Bergamo; Renato Redondi, University of Bergamo)</p> <p>Paper 3: #166 Presented by <u>Pol Fontanet Pérez</u> <b>Defining resilient airline business models in the post COVID-19 times: A multiple case study of the US market.</b> (Pol Fontanet Pérez, Rede Group - University of Vigo; Xose. H. Vazquez Vicente, Rede Group - University of Vigo)</p> <p>Paper 4: #291 Presented by <u>Kübra Nur Cingöz</u> <b>Evaluation of Hand Hygiene Belief and Practices of Aviation Employees.</b></p>

	(Kübra Nur Cingöz, KOCAELI University; Didem Rodoplu Şahin, KOCAELI UNIVERSITY)
<p><b>EU12: Airport Operations 2</b></p> <p><b>Session Chair</b> Roberto Salvador Felix Patron Amsterdam University of Applied Sciences</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/89380205977">https://unsw.zoom.us/j/89380205977</a></p>	<p>Paper 1: #89 Presented by <a href="#">Roberto Salvador Felix Patron</a> <b>Airport passengers flow prediction using LSTM Recurrent Neural Networks.</b> (Roberto Salvador Felix Patron, Amsterdam University of Applied Sciences; Alejandro Murrieta Mendoza, Amsterdam University of Applied Sciences; Paolo Scala, Amsterdam University of Applied Sciences; Miguel Mujica Mota, Amsterdam University of Applied Sciences)</p> <p>Paper 2: #136 Presented by <a href="#">Aliyu Mohammed Tata</a> <b>An Empirical Analysis of Travel Experiences of Airline Travelers with Hidden Disabilities.</b> (Aliyu Mohammed Tata, Swinburne University of Technology, Australia; Matthew Ebbatson, Swinburne University of Technology, Australia; Christopher Fluke, Swinburne University of Technology, Australia)</p> <p>Paper 3: #229 Presented by <a href="#">Ali Osman Kusakci</a> <b>On the Evaluation of Operational Efficiencies of Turkish Airports: An Integrated Spherical Fuzzy AHP/DEA Approach.</b> (Ali Osman Kusakci, Ibn Haldun University; Mustafa Kemal Yilmaz, Ibn Haldun University; Umit Hacioglu, Ibn Haldun University; Mine Aksoy, Yalova University)</p> <p>Paper 4: #230 Presented by <a href="#">Alejandro Murrieta Mendoza</a> <b>Solving the Gate Assignment Problem Using Genetic Algorithms and a Simulator as a Model Black Box</b> (Alejandro Murrieta Mendoza, Amsterdam University of Applied Science; Roberto Salvador Felix Patron, Amsterdam University of Applied Sciences; Miguel Mujica Mota, Amsterdam University of Applied Sciences)</p>
<p><b>EU13: Airport Case Studies</b></p> <p><b>Session Chair</b> Wouter Dewulf University of Antwerp</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/83620451727">https://unsw.zoom.us/j/83620451727</a></p>	<p>Paper 1: #25 Presented by <a href="#">Tatiana Volchenko</a> <b>Predicting airport employee's behavior based on their non-cognitive characteristics.</b> (Tatiana Volchenko, Higher School of Economics; Maxim Fokeev, Higher School of Economics; Liudmila Ruzhanskaya, Ural Federal University)</p> <p>Paper 2: #146 Presented by <a href="#">Anne Graham</a> <b>UK Airport Surface Access and Ageing Passengers.</b> (Anne Graham, University of Westminster; Willy Kruse, University of Westminster; Lucy Budd, De Montfort University; Frances Kremarik, University of Westminster; Stephen Ison, De Montfort University)</p> <p><b>The challenges of Airports in Spatial Planning</b></p> <p>Paper 3: #197 Presented by <a href="#">Joao Pedro Martins</a> (Joao Pedro Martins, Faculty of Engineering of the University of Porto; Alvaro Costa, Faculty of Engineering of the University of Porto)</p> <p>Paper 4: #272</p>

Presented by [Wouter Dewulf](#)

**Remote luggage pick-up and check-through to the destination airport, a solution to enhance airport peak capacity? The Salzburg Airport case.**

(Wouter Dewulf, University of Antwerp; Roel Gevaers, University of Antwerp; Sven Buyle, University of Antwerp; Henrik Rothe, University of Cranfield; Max Schintlmeister, Airport Excellence GmbH)

Paper 5: #286

Presented by [Ana Sofia Vasconcelos](#)

**Passenger mode choice at Lisbon airport: the consideration of ride-hailing services.**

(Ana Sofia Vasconcelos, ISCTE; Sofia Kalakou, ISCTE-IUL, BRU Research Center; Sebastian Birolini, University of Bergamo)

## SUNDAY 29 AUGUST 2021

17:00-18:30 AEST | 03:00-04:30 EDT | 09:00-10:30 CEST | 15:00-16:30 SST | 07:00-08:30 UTC

### CONCURRENT SESSION 9 (34 papers/8 parallel streams)

Region: EUROPE paper session #4

EUROPE Paper Session #4	34 Papers/8 Parallel Streams
<p><b>EU14: Marketing &amp; Consumer Behavior in Air Transport 3</b></p> <p><b>Session Chair</b> Andreas Wittmer University of St. Gallen</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/86979360399">https://unsw.zoom.us/j/86979360399</a></p>	<p>Paper 1: #11 Presented by <a href="#">Juan Carlos Martin</a> <b>Can airline passengers be hostages? The extended-apostle model.</b> (Juan Carlos Martin, University of Las Palmas de Gran Canaria; Steven Leon, Appalachian State University)</p> <p>Paper 2: #103 Presented by <a href="#">Andreas Wittmer</a> <b>The Future of Civil Aviation in Switzerland – Scenario Evaluation Using Delphi Techniques.</b> (Andreas Wittmer, University of St. Gallen; Rene Puls, University of St. Gallen)</p> <p>Paper 3: #153 Presented by <a href="#">Konstantinos Kalligiannis</a> <b>Significance of airport branding elements: A passenger's perspective.</b> (Konstantinos Kalligiannis, Kazimieras Simonavičius University)</p> <p>Paper 4: #188 Presented by <a href="#">Sarah Meire</a> <b>Virtual Interlining within the European Airport Network: An Efficient Strategy for the Price-sensitive Traveller?</b> (Sarah Meire, Ghent University; Ben Derudder, KU Leuven)</p> <p>Paper 5: #276 Presented by <a href="#">Efstathios Kefallonitis</a> <b>Passenger sensory biometrics: The way forward.</b> (Efstathios Kefallonitis, University College London, (UCL))</p>
<p><b>EU15: Air Traffic Control 2</b></p> <p><b>Session Chair</b> Sven Buyle University of Antwerp</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/86190993466">https://unsw.zoom.us/j/86190993466</a></p>	<p>Paper 1: #40 Presented by <a href="#">Sven Buyle</a> <b>To unbundle or not to unbundle: Are European national ANSPs benefitting from scope economies?</b> (Sven Buyle, University of Antwerp)</p> <p>Paper 2: #143 Presented by <a href="#">Ahmet Kökhan</a> <b>An Algorithmic Application For The Effective Use Of Airspace With Flexible Airspace Approach.</b> (Ahmet Kökhan, University of Anatolia; Meriç H. Gökdalay, University of Turkish Aeronautical Association; Serhan Kökhan, Bayburt University)</p> <p>Paper 3: #167 Presented by <a href="#">Thi Thuy An Vo</a> <b>Mitigating airspace congestion in the presence of airline and ANSP market power.</b></p>



	<p>(Thi Thuy An Vo, Worms University of Applied Sciences &amp; Vrije Universiteit Amsterdam; Christiaan Behrens, Vrije Universiteit Amsterdam; Eric Pels, Vrije Universiteit Amsterdam; Frank Fichert, Worms University of Applied Sciences; ET Verhoef, Vrije Universiteit Amsterdam)</p> <p>Paper 4: #220 Presented by <a href="#">Kethaka Sri Verantha Galappaththi</a> <b>Multi Criteria Decision Support Tool for Determining Intermediate Waypoints in Planning En-Route Air Traffic Route.</b> (Kethaka Sri Verantha Galappaththi, University of Moratuwa; Varuna Adikariwattage, University of Moratuwa)</p>
<p><b>EU16: Aviation Safety &amp; Security 2</b></p> <p><b>Session Chair</b> Tamara Pejovic Eurocontrol</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/83665969860">https://unsw.zoom.us/j/83665969860</a></p>	<p>Paper 1: #7 Presented by <a href="#">Simon Peter Njoroge</a> <b>Air transport security: A study of international airports in Kenya</b> (Simon Peter Njoroge, University of Nairobi ; Francis Kibera , University of Nairobi ; Wainaina Gituro , University of Nairobi ; Raymond Musyoka, University of Nairobi)</p> <p>Paper 2: #109 Presented by <a href="#">Samer Bou Habib</a> <b>Heliport Remote Safeguard System.</b> (Samer Bou Habib, AP-Tech; Marcin Bondyra, AP-Tech; Łukasz Morawiński, AP-Tech; Jasiński Cezary, AP-Tech)</p> <p>Paper 3: #125 Presented by <a href="#">Idoaldo Jose de Lima</a> <b>STPA applied to safety hazard analysis of Brazilian major hub airports ground operations.</b> (Idoaldo Jose de Lima, RWTH Aachen University; Cláudio Jorge Pinto Alves, Aeronautics Institute of Technology (ITA) ; Carlos Henrique Netto Lahoz, Aeronautics Institute of Technology (ITA) ; Giovanna Miceli Ronzani Borille, Aeronautics Institute of Technology (ITA) ; Rogéria de Arantes Gomes, Aeronautics Institute of Technology (ITA) ; Marcelo Santiago Sousa, Federal University of Itajubá (UNIFEI))</p> <p>Paper 4: #199 Presented by <a href="#">Ezgi Filazoglu</a> <b>Prevention of Ramp Hazards: Suggestion of FEDA Model with Intelligent of Transport System in the Next Generation Airport Apron.</b> (Ezgi Filazoglu, Nisantasi University; Huseyin Korkmaz, Istanbul University; Savas Selahattin Ates, Eskisehir Technical University)</p> <p>Paper 5: #285 Presented by <a href="#">Tamara Pejovic</a> <b>Composite Risk Index – the ATM Network safety performance measure.</b> (Tamara Pejovic, EUROCONTROL)</p>
<p><b>EU17: Airline Strategy &amp; Management 3</b></p> <p><b>Session Chair</b> Anne Lange University of Luxembourg</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/89723821455">https://unsw.zoom.us/j/89723821455</a></p>	<p>Paper 1: #32 Presented by <a href="#">Anne Lange</a> <b>Subcontracting and service quality: the case of airlines.</b> (Anne Lange, University of Luxembourg; Sascha Albers, University of Antwerp)</p> <p>Paper 2: #33 Presented by <a href="#">Ahmet Kaplan</a> <b>The Effect of Geopolitical Location on Operational Cost and Fleet Management.</b> (Ahmet Kaplan, Ibn Haldun University; Serhan Zeybel, Ibn Haldun University)</p>

	<p>Paper 3: #44 Presented by <u>Miguel Urdanoz</u> <b>Airlines' Cooperation in the US Domestic Market: Measuring the Evolution of Price Gaps.</b> (Miguel Urdanoz, Toulouse Business School; Raquel Sampaio, Universidade Federal do Rio Grande do Norte)</p> <p>Paper 4: #91 Presented by <u>Andrea Gualini</u> <b>The Effect of LCCs and Alliances on Airfares in the European Skies.</b> (Andrea Gualini, Università degli Studi di Bergamo; Gianmaria Martini, Università degli Studi di Bergamo; Flavio Porta, Università degli Studi di Bergamo)</p>
<p><b>EU18: Sustainability in Air Transport 5</b></p> <p><b>Session Chair</b> Marina Efthymiou Dublin City University</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/88155581741">https://unsw.zoom.us/j/88155581741</a></p>	<p>Paper 1: #29 Presented by <u>Amir Hossein Nematian</u> <b>Noise pollution in IKIA airport and hierarchical analysis for health.</b> (Amir Esmael Forouhid, Department of Civil Engineering, Parand Branch, Islamic Azad University, Parand, Iran; Amir Hossein Nematian, Department of Civil Engineering, North Branch, Islamic Azad University, Tehran, Iran)</p> <p>Paper 2: #80 Presented by <u>Gianmarco Andreana</u> <b>A general and simplified methodology to measure airports noise social cost.</b> (Gianmarco Andreana, University of Bergamo; Mattia Grampella, SEA; Gianmaria Martini, University of Bergamo; Davide Scotti, University of Bergamo)</p> <p>Paper 3: #118 Presented by <u>Marina Efthymiou</u> <b>Attitudes of young people towards airlines' green initiatives.</b> (Marina Efthymiou, Dublin City University; Pagoni Ioanna, University of Aegean)</p> <p>Paper 4: #228 Presented by <u>Laura Khammash</u> <b>Factors and barriers of environmental performance: an airport manager perspective.</b> (Laura Khammash, Instituto Superior Técnico (Lisbon); Vasco Reis, Instituto Superior Técnico (Lisbon); Rosário Macário, Instituto Superior Técnico (Lisbon))</p> <p>Paper 5: #249 Presented by <u>Gerasimos Kontos</u> <b>Take Off is Optional, Landing is Mandatory. The Future of Urban Air Mobility.</b> (Gerasimos Kontos, University of the Aegean)</p>
<p><b>EU19: Airport Operations 3</b></p> <p><b>Session Chair</b> Paolo Scala Amsterdam University of Applied Sciences</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/82295023410">https://unsw.zoom.us/j/82295023410</a></p>	<p>Paper 1: #9 Presented by <u>Ejem Ejem</u> <b>Forecasting Passengers Traffic at Nigeria's Airports in Pre-COVID 19 Era.</b> (Ejem Ejem, Federal University of Technology, Owerri; Uchenna Igboji, Federal University of Technology, Owerri)</p> <p>Paper 2: #68 Presented by <u>Paolo Scala</u> <b>Airport Capacity Management Optimization vs Airline Fairness: an empirical study.</b> (Paolo Scala, Amsterdam University of Applied Sciences; Miguel Mujica Mota, Amsterdam University of Applied Sciences; Bao Nuong Tran, Independent researcher)</p>

	<p>Paper 3: #170 Presented by <u>S. Sera Cavusoglu</u> <b>A New Airport Slots Auction Mechanism and Model to Overcome the Challenge: How can the delays be minimized while maximizing efficiency and endorsing competition?</b> (S. Sera Cavusoglu, Instituto Superior Tecnico; Rosario Macario, Instituto Superior Tecnico; Vasco Reis, Instituto Superior Tecnico)</p> <p>Paper 4: #218 Presented by <u>Dimitrios Dimitriou</u> <b>Managing airport landside: a comparative analysis for tourist airports.</b> (Dimitrios DIMITRIOU, Democritus University of Thrace)</p>
<p><b>EU20: Air Transport and COVID-19 8</b></p> <p><b>Session Chair</b> Ulrike Schmalz Bauhaus Luftfahrt e.V.</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/82172559199">https://unsw.zoom.us/j/82172559199</a></p>	<p>Paper 1: #41 Presented by <u>Adrian Mueller</u> <b>The End of International Business Air Travel? Pandemics, Climate Change, and the Need to Meet.</b> (Adrian Mueller, University of St. Gallen; Andreas Wittmer, University of St. Gallen)</p> <p>Paper 2: #5 Presented by <u>Carolina Piedade</u> <b>Courage to take off: is a vaccine the key?</b> (Carolina Piedade, Gulbenkian Institute of Science; Lucia Piedade, School of Economics and Organization (ECEO) - Universidade Lusófona de Humanidades e Tecnologias (ULHT))</p> <p>Paper 3: #22 Presented by <u>Rita Santos</u> <b>The new Era of aviation: The future of Air Transport.</b> (Rita Santos, ULHT-Universidade Lusofona de Humanidades e Tecnologias; Lucia Piedade, ULHT-Universidade Lusófona de Humanidades e Tecnologias)</p> <p>Paper 4: #23 Presented by <u>Ulrike Schmalz</u> <b>Exploring trends, status of research and the impact of Covid-19: A mixed-methods approach.</b> (Ulrike Schmalz, Bauhaus Luftfahrt e.V.; Annika Paul, Bauhaus Luftfahrt e.V.; Lukas Preis, Bauhaus Luftfahrt e.V.; Marius Kleiser, Bauhaus Luftfahrt e.V.)</p>
<p><b>EU21: Airline Economics &amp; Performance 7</b></p> <p><b>Session Chair</b> Catherine Muller-Vibes Toulouse Business School</p> <p><b>Zoom link</b> <a href="https://unsw.zoom.us/j/89104983404">https://unsw.zoom.us/j/89104983404</a></p>	<p>Paper 1: #51 Presented by <u>Catherine Muller-Vibes</u> <b>Government Holdings and Managerial Incentives in the Airline Industry.</b> (Sylvain Bourjade, Toulouse Business School; Catherine Muller, Toulouse Business School)</p> <p>Paper 2: #82 Presented by <u>Dimuth Indeewara</u> <b>Estimating Optimum Flight Block Time Based on Minimum Early and Late Arrival Costs.</b> (Dimuth Indeewara, University of Moratuwa; Varuna Adikariwattage, University of Moratuwa; Malith Ratwatta, SriLankan Airlines Ltd)</p> <p>Paper 3: #120 Presented by <u>Chantal Roucolle</u> <b>Airline Scheduling: learning from past errors.</b> (Chantal Roucolle, ENAC; Miguel Urdanoz, TBS)</p>

Paper 4: #299

Presented by Nadia Jbili

**Solving the Air Craft Overbooking Problem: A Probabilistic Model Based on No Shows Approach.**

(Nadia Jbili, 5 DEGRES; Jérôme VERNY, NEOMA Business School; Jérémy PATRIX, OPAL; Marwa Khalfalli, HIGHFI)

22:00-23:00 AEST | 08:00-09:00 EDT | 14:00-15:00 CEST | 20:00-21:00 SST | 12:00-13:00 UTC

**GENERAL ASSEMBLY & ANNOUNCEMENT OF BEST PAPER AWARDS**

**Zoom Webinar Link**

<https://unsw.zoom.us/j/89686607592>

**Alternative Host**

Ian Douglas

Chair of the ATRS Conference









Prof. Emma Johnston  
Dean of Science, UNSW  
*Welcome*



Prof. Anming Zhang  
President of the ATRS  
*Welcome*



Prof. Gabriel Lodewijks  
Head of School  
UNSW Aviation & ATRS 2021 Host  
*Welcome*



Dr Ian Douglas  
ATRS Conference Chair  
*Welcome & Moderator, Industry Panel*



Dhruv Gupta  
Chief Aviation Officer  
Sydney Airport  
*Industry Keynote and Industry Panel*



Alistair Hartley  
Head of Strategy  
Virgin Australia  
*Industry Panel*



**Trent Banfield**  
International Operations and Aviation  
Development  
Tourism Australia  
*Industry Panel*



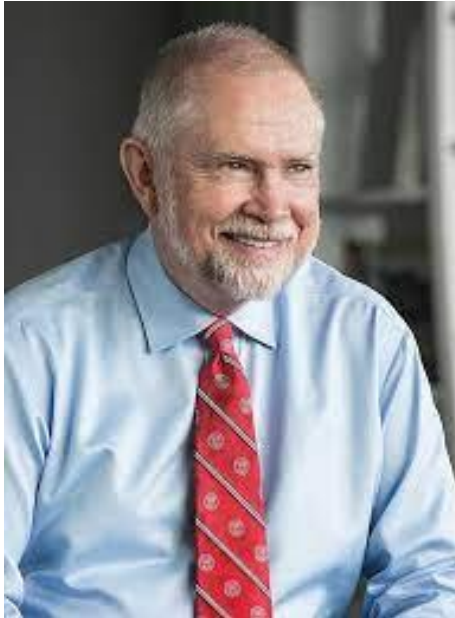
**Prof. Chunyan Yu**  
Embry-Riddle Aeronautical University  
VP, Benchmarking ATRS  
*Global Airport Performance Benchmarking &  
Excellence Awards*



**Prof. Leonardo Basso**  
Universidad de Chile, Chile  
*Academic Keynote and PhD Workshop 1*



**Assoc. Prof. Silke Forbes**  
Tufts University, Boston  
*Academic Keynote & PhD Workshop 1*



**Prof. Peter Jackson**

Head of Pillar (ESD) and Director of Aviation  
Studies Institute (ASI),  
Singapore University of Technology and Design  
*PhD Workshop 2*



**Dr Achim Czerny**

Associate Professor  
Hong Kong Polytechnic University  
*PhD Workshop 2*

# 24<sup>th</sup> ATRS WORLD CONFERENCE, SYDNEY 2021 VIRTUAL GUIDE

## INSTRUCTIONS FOR HOW TO ACCESS THE CONFERENCE

The 24<sup>th</sup> ATRS World Conference is being held online via WHOVA. The direct URL for the conference is <https://atrs2021sydney.events.whova.com>

You can [Download the Whova Mobile App or Access It From the Web Platform on Desktop](#)

## INSTRUCTIONS FOR SPEAKERS & SESSION CHAIRS

If you are chairing a session, presenting a paper or speaking at a session during the conference, please take the time to read through the **ATRS2021 Session Chair Guide** and the **ATRS2021 Speaker Guide** which can be found in **Whova under Resources\_Documents**. Below are a few key details about the conference's organisational structure:

1. Prior to the start of your session, the Session Chair will contact speakers in their session via email to request submission of the final versions of presentation slides. These will serve as backup in case of any technical issues. If you are a speaker and have not received a request, please contact your session chair via email to submit your final slides. Your session chair email address can be found in the program above with your session details.
2. There is no specific requirement on the format of the presentation slides (e.g. number of slides, fonts, etc).
3. We encourage chairs and presenters to join the session 20 minutes early.
4. In general, each session has four or five presentations. We recommend each presentation runs for 15 minutes. If your session only has four papers, you may allow for a few more minutes of presentation time. Please try your best to enforce these time constraints in order to leave time for Qs and As.
5. If there are no questions or comments during Q&A, Session Chairs should initiate discussion.
6. Session Chairs will time their presenters' speeches and let them know when they have a few minutes remaining.
7. Please note your session will be recorded. The moderators will manage the recording for each session and upload them to Whova where they will be available to view on demand.

Please also read through the [WHOVA Speaker Guide](#). And view the speaker guide [VIDEO](#)

This guide will cover:

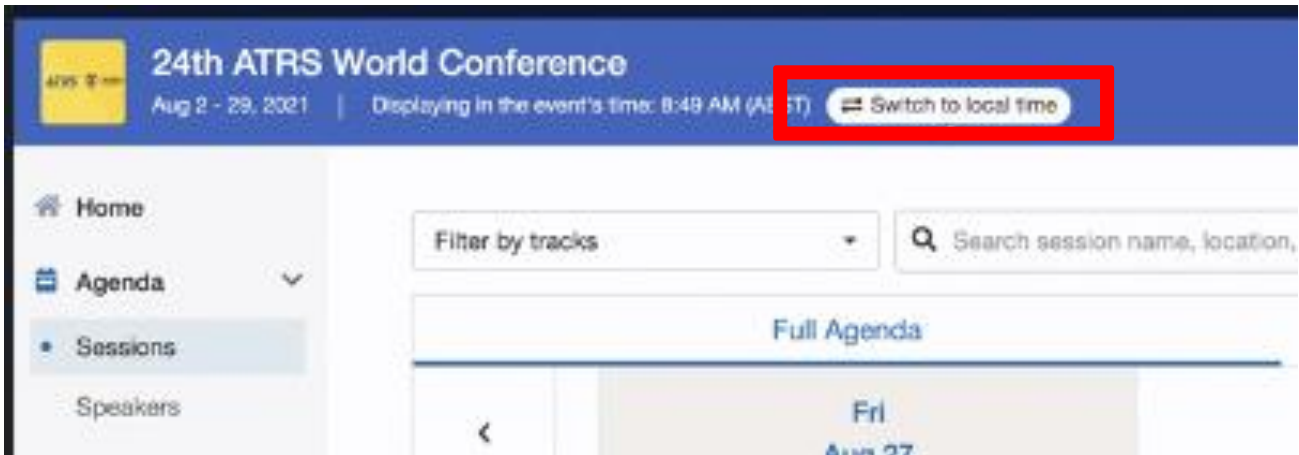
1. How to make sure your cameras, network and microphone work
2. How to access the Zoom links
3. Engaging with Audiences
4. Checking who is attending your session
5. Answering Q&A
6. Uploading additional session info
7. Preparation Checklist
8. Things to Test
9. In case of an emergency.

## INSTRUCTIONS FOR ATTENDEES

Please take the time to read the **ATRS Attendee Guide** which can be found in Whova under **Resources\_Documents**. Please also read the [WHOVA Attendee Guide here](#):

## SETTING THE AGENDA TO YOUR LOCAL TIME ZONE

The Agenda is set up in AEST (Australian Eastern Standard Time). To set the agenda to your local time zone, log into Whova using your email and password, go to the banner at the top, click on **SWITCH TO LOCAL TIME**, then the events will be displayed in your local time.



## JOINING YOUR SESSION

1. To participate in a session, go to the agenda tab and find the session you wish to join.
2. Click “view session”.
3. Click “Join Livestream”
  - a. If the session is live, you will be redirected to either “Join in Zoom” or “Join in Whova”
    - i. If you choose ‘Join in Zoom’, it will take you to view the session in the native ZOOM platform.
    - ii. If you choose ‘Join in Whova’ you will view the session without exiting from the Whova platform and you will have access to the Whova chat/poll/community window on the left at the same time.
    - iii. If you experience black screens or technical issues because you ‘Joined in Whova’, please leave the meeting and log in again by choosing the ‘Join in Zoom’ option in Whova.
    - iv. You may also join directly via Zoom using the Zoom link in the agenda.
  - b. If the session hasn’t occurred yet, a message will indicate the scheduled start time. You can click “Add to My Agenda” to put the session on your own personal agenda and set a reminder
  - c. The session will be recorded and the recorded video will become available to you.

## CHAT and Q&A

You have the option of asking questions in either the Zoom chat, if you have joined using the 'Join in Zoom' option or via the Zoom native app, or the Whova chat if you choose the 'Join in Whova' option (see image above). Please be aware that the Zoom and Whova chat streams are not integrated and if your question is not answered during the session, the session chair may address it after the session. You can also ask questions during the Q&A at the end of each session.

We hope you enjoy the 24<sup>th</sup> ATRS World Conference!