






ATRS CONFERENCE OVERVIEW

	Wed, 26 June	Thur, 27 June	Fri, 28 June	Sat, 29 June
0830-0900		Opening Welcome Address <i>Seminario Vescovile Giovanni XXII, Via Arena 11</i>	Concurrent Session 3 <i>Università degli studi di Bergamo, Via Salvecchio 19</i>	Concurrent Session 7 <i>Università degli studi di Bergamo, Via Salvecchio 19</i>
0900-0930		Keynote Session & Panel Discussion: The Impact of LCC on Local Economies <i>Seminario Vescovile Giovanni XXIII, Via Arena 11</i>		
0930-1000			Coffee Break	Coffee Break
1000-1030		Coffee Break		
1030-1100	ATRS Network Committee Meeting <i>Meeting Room, Centri di Ateneo, Università degli Studi di Bergamo, Via Salvecchio 19</i> *By invitation only*	Airport Keynote & 2013 ATRS Global Airport Performance Benchmarking Session <i>Seminario Vescovile Giovanni XXIII, Via Arena 11</i>	Concurrent Session 4 <i>Università degli studi di Bergamo, Via Salvecchio 19</i>	Concurrent Session 8 <i>Università degli studi di Bergamo, Via Salvecchio 19</i>
1100-1130				
1130-1200		Luncheon <i>Seminario Vescovile Giovanni XXIII, Via Arena 11</i>	Luncheon <i>Seminario Vescovile Giovanni XXIII, Via Arena 11</i>	Closing Ceremony & 2014 ATRS Conference Announcement <i>Room 2, Università degli studi di Bergamo, Via Salvecchio 19</i>
1200-1230				
1230-1300				
1300-1330				
1330-1400				
1400-1430	Airport Benchmarking Taskforce Meeting <i>Meeting Room, Centri di Ateneo, Università degli studi di Bergamo</i> *By invitation only*	Concurrent Session 1 <i>Università degli studi di Bergamo, Via Salvecchio 19</i>	Concurrent Session 5 <i>Università degli studi di Bergamo, Via Salvecchio 19</i>	Cathedral Museum and Treasure
1430-1500				
1500-1530				
1530-1600		Coffee Break	Coffee Break	
1600-1630	Workshop on Journal Publication Coaching <i>Room 1, Università degli studi di Bergamo, Via Salvecchio 19</i>	Concurrent Session 2 <i>Università degli studi di Bergamo, Via Salvecchio 19</i>	Concurrent Session 6 <i>Università degli studi di Bergamo, Via Salvecchio 19</i>	
1630-1700				
1700-1730				
1730-1800	Registration and Welcome Cocktail <i>Garden, Università degli studi di Bergamo, Via Salvecchio 19</i> Sponsored by: 			
1800-1830				
1830-1900				
1900-1930				
1930-2000				
2000-2030	Gala Dinner <i>Piazza Vecchia</i> Special thanks to:    			
2030-2100				
2100-2130				
2130-2200				
2200-2230				
2230-2300				

CONFERENCE AGENDA (JUNE 26 – 29)

Registration:

	Wed, 26 June	Thur, 27 June		Fri, 28 June	Sat, 29 June
<i>Time</i>	1800-2000	0800-1230	1400 -1730	0800-1730	0800-1200
<i>Venue</i>	Garden, Università degli studi di Bergamo, Via Salvecchio 19	Seminario Vescovile Giovanni XXIII, Via Arena 11	Università degli studi di Bergamo, Via Salvecchio 19	Università degli studi di Bergamo, Via Salvecchio 19	Università degli studi di Bergamo, Via Salvecchio 19

Wednesday, June 26th, 2013

- 11:00 – 14:00 **ATRS NETWORK COMMITTEE MEETING- BY INVITATION**
Meeting Room, Centri di Ateneo, Università degli studi di Bergamo, Via Salvecchio 19
- 14:00 – 15:30 **AIRPORT BENCHMARKING TASKFORCE MEETING – BY INVITATION**
Meeting Room, Centri di Ateneo, Università degli studi di Bergamo, Via Salvecchio 19
- 16:00 – 17:30 **WORKSHOP ON JOURNAL PUBLICATION COACHING**
Room 1, Università degli studi di Bergamo, Via Salvecchio 19
- Panel participants will include editors and past editors from leading transportation journals including: Journal of Air Transport Management, Transportation Research D, Transportation Research E, Journal of Transport Economics and Policy, Transportation Journal, and Research in Transportation Economics
- 18:00 – 20:00 **REGISTRATION AND WELCOME COCKTAIL**
Garden, Università degli studi di Bergamo, Via Salvecchio 19

Thursday, June 27th, 2013

- 08:30 – 09:00 **OPENING WELCOME ADDRESSES**
Seminario Vescovile Giovanni XXIII, Via Arena 11
- **Prof. Stefano Paleari**, Rector, University fo Bergamo
 - **Prof. Gianmaria Martini**, 2013 ATRS Organizing Committee Chair, University of Bergamo
 - **Prof. Tae Hoon Oum**, Chairman, ATRS
- 09:00 – 10:30 **PLENARY SESSION ON “THE IMPACT OF LOW COST CARRIERS ON LOCAL ECONOMIES”**
Seminario Vescovile Giovanni XXIII, Via Arena 11
- Moderator: **Prof. Stefano Paleari**, Rector, University fo Bergamo
 - Panel List:
 - **Giulio De Metrio**, COO and Deputy CEO, SEA Milan Malpensa and Linate airports
 - **Tony Fernandez**, CEO, Air Asia
 - **Stefano Baronci**, Secretary General, Italian Airport Association
 - **Andrea Mentasti**, Director General, SACBO Bergamo airport
 - **Perry Miller**, Head, Houston-Hobby Airport
 - **Paolo Sgaramella**, VP Commercial, Air Dolomiti
- 10:30 – 11:00 Coffee Break
- 11:00 – 12:30 **AIRPORT KEYNOTE & 2013 ATRS GLOBAL AIRPORT PERFORMANCE BENCHMARKING REPORT SESSION:**
Seminario Vescovile Giovanni XXIII, Via Arena 11
- Chairperson: **Mr. Mario Diaz**, Director of Aviation and Head, Houston Airports System, USA
 - Key Results of the 2013 ATRS Global Airport Performance Benchmarking Project

- **Prof. Tae Hoon Oum**, ATRS Chairman and UPS Foundation Chair Professor, Sauder School of Business, University of British Columbia
- The Airport Performance Excellence Award Presentations:
 - **European Large Airport Efficiency Excellence Award**
 - Recipient: **Thomas Woldbye**, CEO, *Copenhagen Airport*
 - **European Small-Medium Airport Efficiency Excellence Award**
 - Recipient: **Robert Deillon**, CEO, *Genève Aéroport*
 - **Asian Airport Efficiency Excellence Award**
 - Recipient: **Si Chul Sung**, President & CEO, Korea Airports Corporation: *Gimpo International Airport*
 - **Oceanian Airport Efficiency Excellence Award**
 - Recipient: **Ian Douglas**, UNSW: *Sydney Airport*
 - **North American Large Airport Efficiency Excellence Award**
 - Recipient: **Jeffrey Hamiel**, CEO, Metropolitan Airports Commission: *Minneapolis-St. Paul International Airport*
 - **North American Small-Medium Airport Efficiency Excellence Award**
 - Recipient: **Mark Kranenburg**, Director of Airports, Oklahoma City Department of Airports: *Oklahoma City Will Rogers World Airport*
 - **Global Efficiency Excellence Award**
 - Recipient: **Balram Bheodari**, Deputy General Manager, *Hartsfield-Jackson Atlanta International Airport*
- Keynote Acceptance Speech: “How ATL Manages the Top Efficiency Airport and How to Balance the Needs of the Full Service Hub Carrier and a Major LCC”
 - **Balram Bheodari**, Deputy General Manager, Hartsfield-Jackson Atlanta International Airport

- 12:30 – 14:00 Luncheon
Seminario Vescovile Giovanni XXIII, Via Arena 11
- 14:00 – 15:30 **CONCURRENT SESSION 1**
Università degli studi di Bergamo, Via Salvecchio 19
- 15:30 – 16:00 Coffee Break
- 16:00 – 17:30 **CONCURRENT SESSION 2**
Università degli studi di Bergamo, Via Salvecchio 19

Friday, June 28th, 2013

- 08:30 – 10:00 **CONCURRENT SESSION 3**
Università degli studi di Bergamo, Via Salvecchio 19
- 10:00 – 10:30 Coffee Break
- 10:30 – 12:00 **CONCURRENT SESSION 4**
Università degli studi di Bergamo, Via Salvecchio 19

- 12:00 – 14:00 Luncheon
Seminario Vescovile Giovanni XXIII, Via Arena 11
- 14:00 – 15:30 **CONCURRENT SESSION 5**
Università degli studi di Bergamo, Via Salvecchio 19
- 15:30 – 16:00 Coffee Break
- 16:00 – 17:30 **CONCURRENT SESSION 6**
Università degli studi di Bergamo, Via Salvecchio 19
- 20:30 – 23:00 Gala Dinner
Piazza Vecchia

Saturday, June 29th, 2013

- 08:30 – 10:00 **CONCURRENT SESSION 7**
Università degli studi di Bergamo, Via Salvecchio 19
- 10:00 – 10:30 Coffee Break
- 10:30 – 12:00 **CONCURRENT SESSION 8**
Università degli studi di Bergamo, Via Salvecchio 19
- 12:00 – 13:00 **CLOSING CEREMONY & 2014 ATRS CONFERENCE ANNOUNCEMENT**
Room 2, Università degli studi di Bergamo, Via Salvecchio 19
- Moderator: **Prof. Martin Dresner**, President
 - **Report on the 2013 Conference**
 - Prof Gianmaria Martini, Conference Chair
 - Prof. Anming Zhang, VP Scientific Programs
 - **Report on Publications**
 - Prof. Sveinn Gudmundsson, VP Publications
 - **Appreciation Awards and ATRS Business Report**
 - Prof. Tae Oum and Dr. Sam Choo
 - **ATRS Financial Report**
 - Prof. Tae Oum and Dr. Sam Choo
 - **2015 and 2016 ATRS World Conference Sites**
 - Prof. Martin Dresner
 - **Organizational Developments at the ATRS**
 - Prof. Tae Oum, Chairman
 - **Invitation to the 2014 ATRS World Conference at Bordeaux, France**
 - Prof. Seock-Jin Hong, Bordeaux Business School
 - **Other Business**
 - **Adjournment**
- 14:00 – 14:30 **CATHEDRAL MUSEUM AND TREASURE**
- Visit to the Cathedral's museum (5 minutes walking from the conference venue) with English speaking guide. ATRS delegates will visit in different groups the subsoil of the Cathedral, a very recent attraction since the complex excavation campaign in the subsoil of the Cathedral ended only in 2012 and revealed that the Renaissance rebuilding of the architect Filarete incorporated the traces of a Roman settlement, the early Christian Saint Vincent Cathedral and the subsequent Romanic cathedral. The visit lasts about 15 minutes.

CONCURRENT SESSION 1 (THURSDAY, JUNE 27, 14:00 – 15:30)

SESSION 1-A: AVIATION AND ECONOMY – ROOM 1

Chair: Keith Mason, Cranfield University, UK

- 9 Wei Lu, Xingwu Zheng *Civil Aviation University of China, China*
An Analysis of Air Cargo Imbalances in China Bilateral Air Markets: A Trade Structure Perspective
- 139 Elien Van De Vijver, Ben Derudder, Frank Witlox *Ghent University, Belgium*
Disentangling Cause and Effect in the Co-Evolution of Air Passenger Traffic and Trade: The Case of Pacific Asia, 1980-2010
- 326 Carlos Ordas Criado, Denis Bolduc, Christophe-Peguy Choub-Faha *Universite Laval, Canada*
Passenger Traffic, Regional Employment and Economic Growth: A Causality Analysis
- 98 Wenjie Wu *University of Glasgow, UK*
Economic Impact of Airline Network Development: Empirical Evidence from China Based on Micro-geographical Data

SESSION 1-B: AVIATION AND ENVIRONMENTS I – ROOM 3

Chair: Sveinn Gudmundsson, Toulouse Business School, France

- 105 Dimitrios J. Dimitriou, Asimina I. Voskaki, Callum S. Thomas *Democritus University of Thrace, Greece*
Airports Environmental Impact Mitigation: Assessment of 15 International Airports
- 47 Stefan Baumeister *University of Jyvaskyla, Finland*
Competitive Advantage Through Environmental Responsibility?: A Case Study of Finnair
- 228 Mattia Grampella, Fausto Tassan, Giovanni Zambon *University of Milan Bicocca, Italy*
Gianmaria Martini, Davide Scotti *University of Bergamo, Italy*
The Environmental Costs of Airports' Aviation Activities: a Panel Data Econometric Analysis of Italian Airports
- 150 Yashar Araghi, Maarten Kroesen, Eric Molin, Bert van Wee *Delft University of Technology, The Netherlands*
Heterogeneity in Passenger Attitudes and Preferences for Airline Environmental Policies

SESSION 1-C: AIRPORT PLANNING AND MANAGEMENT I – ROOM 5

Chair: Yeong Heok Lee, Korea Aerospace University, Korea

- 4 Helena Povoá, Anderson R. Correia *Technological Institute of Aeronautics, Brazil*
Prioritization of Alternative Locations for New Airports Through a Multi-Criteria Method
- 23 Paolo Beria, Antonio Laurino *Politecnico di Milano, Italy*
Air Transport and Events in a Big City: Relations and Implications for Milan's Airports
- 248 Lúcia Piedade, Vítor Coelho, J.M.G. Marques *Universidade Lusofona de Humanidades e Tecnologias, Portugal*
Implementation of Apron Management at Lisbon Airport Conceptual Procedure Using a Variable Geometry Principle for Runway 17/35

SESSION 1-D: MERGERS AND ALLIANCES I – ROOM 42

Chair: Martin Dresner - University of Maryland, the United States

- 141 M. Lenart, K. Mason, A. Foster *Cranfield University, UK*
Mergers and Acquisitions of Low Cost Carriers: Possible Scenarios for Consolidation in Europe
- 177 Tobias Huld *University of Munster, Germany*
Consolidation in the European Airline Market: The Road to Profitability
- 270 Kostas Iatrou *Air Transport News, Greece*
Mauro Oretti *SkyTeam, Netherlands*
Leonardo Corbo *Luiss Guido Carli University, Italy*
Dimitra Apatsidou *King's College, UK*
Nikolaos Schoinochoritis *Loughbrough University, UK*
Airline Choices for the Future: The Way Forward
- 186 Darren Ellis *University of New South Wales, Australia*
Global Airline Alliances: Developing a Delphi Study to Investigate Future Prospects

SESSION 1-E: AIRLINE OPERATION – ROOM 54

Chair: Joel Shon, Tainan University of Technology, Taiwan

- 27 Daniel Sailler *Aéroports de Paris, France*
How to Measure Aircraft Type Capacity? An Innocent Question with Big Consequences
- 12 Lay Eng Teoh, Hooi Ling Khoo *Universiti Tunku Abdul Rahman, Malaysia*
An Environmentally Sustainable Fleet Management Model Under Uncertainty
- 44 Vitaly S. Guzhva, Tamilla Curtis, Vladislav Borodulin *Embry-Riddle Aeronautical University, USA*
Market Analysis for Small and Mid-Size Commercial Turboprop Aircraft
- 194 Slavica Dozic, Milica Kalic *University of Belgrade, Serbia*
Selection of Aircraft Type by Using Even Swaps Method

SESSION 1-F: LOW COST CARRIERS I – ROOM 4

Chair: Anming Zhang - University of British Columbia, Canada

- 91 Klemens Klein, Sascha Albers *University of Cologne, Germany*
Robert Malina *Massachusetts Institute of Technology, USA*
European Low Fare Airlines' FDI-Based Market Entry : An Empirical Analysis
- 15 Tomoki Ishikura *Tokyo Metropolitan University, Japan*
Impacts of LCC Entry in Japans' Domestic Market
- 76 Andrea Salanti, Paolo Malighetti, Stefano Paleari *University of Bergamo, Italy*
Renato Redondi *University of Brescia, Italy*
Entry Determinants in EU Regions by Low Cost and Traditional Carriers
- 304 Seock-Jin Hong *Bordeaux Management School, France*
Fancois Vellas *University of Toulouse, France*
Prospects of Low Cost Carriers and Their Influence on the Industry: Korean Case Study

SESSION 1-G: AVIATION SAFETY I – ROOM 22

Chair: Raymon Kaduck, Canadian Transportation Agency, Canada

- 160 D. E. Pitfield *Loughborough University, UK*
Modelling the Location and Consequences of Aircraft Accidents
- 167 Alex Y.L. Lu *Kainan University, Taiwan*
Cheng-Hua Yang *National Kaohsiung University of Hospitality and Tourism, Taiwan*
The Correlation Between Ground Proximity Warning System and Flight Safety
- 244 Hamed Sheikhpour, Shahab Hassanpour *Tarrahan Parseh Transportation Institute, Iran*
A New Look on Near Airport Aircraft Accident Risk
- 200 Sehyun Tak, Donghoun Lee, Yoonjin Yoon *Korea Advanced Institute of Science and Technology, Korea*
The Study of Occurrence Categories and Accident-Related Events Based on the Accident Reports of the Republic of Korea

SESSION 1-H: AIR TRAFFIC CONTROL AND MANAGEMENT I – ROOM 2

Chair: Brent Bowen, Purdue University, USA

- 83 Caitlin Surakitbanharn, *Purdue University, USA, Keio University, Japan*
Steven Landry *Purdue University, USA*
Nobuaki Minato *Keio University, Japan*
Measuring Intensity Control in Automated Separation Assurance Safety and Function Allocation in NextGen
- 103 Lucy Budd, Melanie Kirchhofer *Loughborough University, UK*
Using Data Derived from ADS-B (Automatic Dependent Surveillance-broadcast) Radar Boxes to Understand the Effects of Convective Weather Activity on Air traffic Flows - Findings from the UK
- 339 Bijan Vasigh *Embry Riddle Aeronautical University, USA*
Mahmoud Saffarzadeh *Tarbiat Modares University, Iran*
Seyed Ramtin Bagheri *Fooman Islamic Azad University, Iran*
Comparison of Multilateration System (MLAT) with Secondary Surveillance System (SSR) Case Study: SDG, CQD And IIL Airports
- 316 Yakubu Ibrahim, Peter Higgins, Peter Bruce *Swinburne University of Technology, Australia*
Development and Evaluation of Collision Avoidance Display for Supporting Pilots' Self-Separation in a Free Flight Environment

SESSION 1-I: CONSUMER PROTECTION – ROOM 55

Chair: Paul Hooper, University of New South Wales, Australia

- 57 Hideki Fukui *Ehime University, Japan*
Koki Nagata *University of Maryland, USA*
Flight Cancellation as a Reaction to the Tarmac Delay Rule: An Unintended Consequence of Enhanced Passenger Protection
- 263 Blaise Waguespack, Tamilla Curtis *Embry-Riddle Aeronautical University, USA*
Ancillary Revenue and Price Fairness: An Exploratory Study Pre & Post Flight
- 72 Yi Hsin Lin, Li Wen Low *Asia University, Taiwan*
From Brand Experience to Brand Loyalty: An Empirical Research on Compare with Different Airline Alliance

CONCURRENT SESSION 2 (THURSDAY, JUNE 27, 16:00 – 17:30)

SESSION 2-A: AVIATION AND TOURISM – ROOM 1

Chair: Peter Forsyth, Monash University, Australia

- 317 Jocelyne Napoli *University of Paul Sabatier, France*
Air Transport and Cultural Tourism and Information Technology: Android Apps in the Midi-Pyrenees Region
- 312 Kazuyuki Takada *Tokyo Denki University, Japan*
Makoto Fujiu *University of Tokyo, Japan*
Overview of the Transition of Airports of Entry in Japan
- 184 Tay T.R. Koo, Wen-Chun Tseng, Cheng-Lung Wu *University of New South Wales, Australia*
Jin-Woo Park *Korea Aerospace University, Korea*
The Effect of Inbound Itinerary Availability on Regional Dispersal: A Case of the Dispersal of Korean Visitors in Australia
- 106 Dimitrios J. Dimitriou, John C. Mourmouris, Maria F. Sartzetaki *Democritus University of Thrace, Greece*
Estimation of Airport Economic Impact in the Sector of Tourism
- 225 Taizo Hayashi *Institute for Transport Policy Studies, Japan*
A Study on the Impact of Globalization of Haneda Airport on Travel Products

SESSION 2-B: AVIATION AND ENVIRONMENTS II – ROOM 54

Chair: Kostas Iatrou, Air Transport News, Greece

- 37 Augusto Voltes-Dorta *Universitat de Barcelona, Spain*
Chikage Miyoshi *Cranfield University, UK*
The Impact of Aircraft Noise and Air Pollution on Scale Economies of UK Airports
- 197 Mattia Grampella, Fausto Tassan, Giovanni Zambon *University of Milan Bicocca, Italy*
Gianmaria Martini, Davide Scotti *University of Bergamo, Italy*
Airports' Noise Nuisance and Emissions: Estimation and Validation Through INM and EDMS Simulation at Italian Airports
- 294 Hansjochen Ehmer *German Aerospace Center, Germany*
Symbolic Politics as a Matter of Airport Noise Mitigation Programs

SESSION 2-C: AIRPORT PLANNING AND MANAGEMENT II – ROOM 42

Chair: Perry Miller, Houston Hobby Airport, USA

- 329 Richard Moxon, Udit Kapur *Cranfield University, UK*
Air Traffic Distribution in a Multi-Airport Environment: The Mumbai Metropolitan Region
- 3 Hesam Shabaniverki *Islamic Azad University of Tehran Science and Research Branch, Iran*
Amir Reza Mamdoohi *Modares University, Iran*
Mahmoud Saffarzadeh *Tarbiat Modares University, Iran*
Airport Passenger Terminals Capacity Planning - Case Study: IKIA and MIA
- 133 Sze-Wei Chang *China University of Science and Technology, Taiwan*
Teeba Wan-chih Lu, Mandy Wen-chuan Ho *Overseas Chinese University, Taiwan*
Optimum Runway Orientation

- 346 Amir Reza Mamdoohi *Tarbiat Modares University, Iran*
 Abolfazl Taherpour *Islamic Azad University, Iran*
 Mahdi Yazdanpanah *K.N. Toosi University of Technology, Iran*
Multinomial Logit Modeling of Access Mode Choice to Airport, Using Stated preference Survey Data: A Case Study of IKIA

SESSION 2-D: MERGERS AND ALLIANCES II – ROOM 5

Chair: Robert Windle, University of Maryland, USA

- 84 Paolo Malighetti, Valentina Morandi, Stefano Paleari *University of Bergamo, Italy*
 Renato Redondi *University of Brescia, Italy*
The Determinants of Codesharing Agreements by Low Cost Carriers
- 320 Li Zou, Chunyan Yu *Embry-Riddle Aeronautical University, USA*
 Martin Dresner *University of Maryland, USA*
The Structure of Global Alliances and its Impacts on Airline Performance
- 306 Ruowei Chen, Zheng Lei *Cranfield Univeristy, UK*
The Price Effects of Airline Merger: the Case of China Eastern and Shanghai Airlines
- 233 Marco Alderighi *Universita della Valle d'Aosta, Italy*
 Alberto A. Gaggero *University of Pavia, Italy*
 Claudio A. Piga *Loughborough University, UK*
Dynamic Pricing with Codesharing

SESSION 2-E: AIRLINE MANAGEMENT AND STRATEGY I – ROOM 3

Chair: Andreas Papatheodorou, University of the Aegean, Greece

- 110 Evangelia Siachou, Triant Flouris *Hellenic American University, USA*
Managing the Risky Matter of Business Model Innovation in the Context of the Airline Industry
- 53 Francois Domergue *Inseec Research, France*
The Contribution of Feedback System to the Management of Critical Situation in Air Transport
- 269 Yusaf H. Akbar *Central European University, Hungary*
 Adel Nemeth *Jacobs University and University of Applied Sciences, Germany*
 Hans-Martin Niemeier *University of Applied Sciences, Germany*
Organizational Theory, Strategy and "Permanent Failure": Explaining Economic Outcomes in the Airline Industry

SESSION 2-F: LOW COST CARRIERS II – ROOM 55

Chair: Seock-Jin Hong, Bordeaux Management School, France

- 31 Nadine Itani, Keith Mason *Cranfield University, UK*
 William G. Morrison *Wilfrid Laurier University, Canada*
The Impacts of Operating Environment on the Structure and Evolution of Middle Eastern Low Cost Carriers
- 319 Martin E. Dresner, Omar Sherif Elwakil *University of Maryland, USA*
The Impact of Low Cost Carriers on Transborder Demand Leakage in the U.S. – Canadian Air Passenger Market
- 178 Tamilla Curtis, Dawna Rhoades *Embry-Riddle Aeronautical University, USA*
Analysis of Low-Cost Carriers in the Post-Soviet States

- 196 Jovana Kuljanin, Milica Kalic *University of Belgrade, Serbia*
Analysis of Traditional and Low-Cost Airlines Passengers' Profile on Competitive Routes Using Statistical Multivariate Methods: Belgrade Airport Case Study

SESSION 2-G: AVIATION SAFETY II – ROOM 2

Chair: Peter Bruce, Swinburne University of Technology, Australia

- 215 Yuna Noh, Yoonjin Yoon *Korea Advanced Institute of Science and Technology, Korea*
A Perspective on Occurrence in Aviation Safety Management in South Korea through a Survey on Various Occurrence Categories
- 161 D.P. Gleave, D.E. Pitfield, L.C.S. Budd *Loughborough University, UK*
Reducing the Risk to Aircraft Occupants and Third Parties: Improving the International Standards for Airport Operations
- 36 J. Bryan Burrows-McElwain, I.K. Dabipi, Chris Hartman, Xavier Henry *University of Maryland Eastern Shore, USA*
Making a Case for Improved Safety: The Challenge of Developing Metrics to Measure the Impact of Weather Camera System Data Sources on Pilot's Planning and Decision Making in General Aviation

SESSION 2-H: AIR TRAFFIC CONTROL AND MANAGEMENT II – ROOM 22

Chair: Nicole Adler, Hebrew University, Israel

- 343 Volodymyr Bilotkach *Newcastle University, USA*
Simone Gitto *University of Rome, Italy*
Radosav Jovanovic *University of Belgrade, Serbia*
Juergen Mueller *Berlin School of Economics and Law, Germany*
Eric Pels *Vrije Universiteit Amsterdam, Netherlands*
Cost-Efficiency Benchmarking of European Air Navigation Service Providers: Problem, Past Efforts and a Way Forward
- 236 Kiyotaka Yuguchi *Sagami Women's University, Japan*
Technological Evolution and Transition of Charging Systems in the Air Traffic Control
- 109 Kadriye Yaman, Hakan Oktal, Metin Altan *Anadolu University, Turkey*
Analyzing the Capacity of Turkish Airspace by Using GIS
- 80 Mayara Conde Rocha Murca, Carlos Müller *Instituto Tecnológico de Aeronautica, Brazil*
An Optimization Model for Scheduling Aircraft Landings in a Terminal Area considering Alternative Arrival Routes

SESSION 2-I: GEOGRAPHICAL DIMENSIONS IN AIR TRANSPORTATION – ROOM 4

Chair: Kevin O'Connor, Melbourne University, Australia

- 52 Kevin O'Connor *Melbourne University, Australia*
The Geography of Asia-Pacific Aviation: A Constraint on Growth?
- 94 Andrew R Goetz *University of Denver, USA*
Geographies of Air Transport
- 77 Khaula A. Alkaabi *United Arab Emirates University, UAE*
Middle Eastern Carriers and Hub Airports
- 75 Kurt Fuellhart *Shippensburg University, USA*
Relative Passenger Levels on Routes at Nearby Airports within Four Urban Regions of the U.S.A

CONCURRENT SESSION 3 (FRIDAY, JUNE 28, 08:30 – 10:00)

SESSION 3-A: AIR TRANSPORT DEVELOPMENT AND POLICY I – ROOM 1

Chair: Bijan Vasigh, Embry Riddle Aeronautical University, USA

- 256 Joao P. Pita, Miguel G. Santos, Antonio P. Antunes
Antonio G. de Menezes
Public Service Obligations in Air Transportation Networks: A Study for the Azores
*University of Coimbra, Portugal
University of the Azores, Portugal*
- 68 Chittayong Surakitbanharn, Daniel Aldrich, Steven Landry
Nobuaki Minato, Masaru Nakano
A Methodology in Evaluating the Value of Government Incentives for Remote Airports in the United States
*Purdue University, USA
Keio University, Japan*
- 323 Alda Metrass Mendes
Richard de Neufville
Alvaro Costa
Alessandro de Oliveira
Air Transport Design for Small Remote Communities: Policy Options Under Regulatory Reform
*Icelandic Tourism Research Centre, Iceland
Massachusetts Institute of Technology, USA
Faculdade de Engenharia da Universidade do Porto, Portugal
Instituto Tecnológico de Aeronáutica, Brazil*
- 166 Alexandra Leipold, Petra Kokus, Michael Hepting
Assessment of the Overall Global Air Transport Development in Consideration of General Sustainable Development Goals
German Aerospace Centre, Germany

SESSION 3-B: AVIATION AND ENVIRONMENTS III – ROOM 3

Chair: Andrea Salanti, University of Bergamo, Italy

- 332 Sang-Yong Han
Tae Seung Kim
Fuel Efficiency and CO2 Emission in the Aviation Industry- Comparison Among OECD Countries
*Dongseo University, Korea
Inha University, Korea*
- 143 Andrew Yuen
Janina Scheelhaase, Martin Shaefer
Greenhouse Gas Emission due to the New Runway in Hong Kong
*Chinese University of Hong Kong, Hong Kong
German Aerospace Center, Germany*
- 224 Nicola Volta,
Gianmaria Martini, Davide Scotti
An Empirical Assessment of the CO2 Emissions Produced by European Airlines over the Period 2000-2010
*University of Southern Denmark, Denmark
University of Bergamo, Italy*
- 18 Marcello Amato
Wouter Beelaerts
Ad de Graaff
Bartosz Dziugiel
Stephan Horn, Peter A. Meincke
Noemi Kral
Giuseppe Siciliano
Analysis of Current Situation and Expected Future Bottlenecks and Challenges in Air Cargo - First Results of Cargomap Project
*CIRA, Italian Centre for Aerospace Research, Italy
Delft University of Technology, Netherlands
AD Cuenta (ADC), Netherlands
Institute of Aviation (ILOT), Poland
DLR German Aerospace Center, Germany
SLOT Consulting Ltd, Hungary
Gruppo CLAS, Italy*

SESSION 3-C: AIRPORT PLANNING AND MANAGEMENT III – ROOM 5

Chair: Rico Merkert, University of Sydney, Australia

- 26 Mark Friesen *QUINTA Consulting & University of St. Gallen, Germany*
Increasing Car Park Revenues at European Airports
- 340 Nina Leheyda *KU Leuven, Belgium*
Jürgen Müller, Roman Pashkin *Berlin School of Economics and Law, Germany*
Organizational Form and Performance: Evidence from the US Airport Retailing
- 148 Jin-Long Lu *National Kaohsiung Maritime University, Taiwan*
Determinants of Passengers' Shopping Intentions at Airports
- 164 Patrick Bohl *Corvinus University of Budapest, Hungary*
An Investigation into Airport Related Stress, Coping and Shopping Behaviour
- 299 Muneki Yokomi *Osaka University of Commerce, Japan*
Empirical Analysis for Passenger Behavior of LCC in Airport's Commercial Facilities

SESSION 3-D: MERGERS AND ALLIANCES III – ROOM 42

Chair: Kenneth Button, George Mason University, USA

- 34 Jinkook Lee *Texas A&M University, USA*
Endogenous Product Characteristics in an Analysis of Merger Effects: A Study of the U.S. Airline Industry
- 292 Humberto Bettini, Alessandro Oliveira *Institute for Applied Economic Research (IPEA), Brazil*
Do Airlines Adjust Capacity Before Mergers are Announced and Approved? Some Evidence from Brazilian Reality
- 46 Sunder Raghavan, Jayathi Raghavan *Embry-Riddle Aeronautical University, USA*
Consolidation in the Airline Industry: The Delta-Northwest Merger
- 298 Guillaume Burghouwt *SEO Economic Research, The Netherlands*
Determinants of Long-Haul Specialization in Multi-Hub Airline Networks: An Empirical Analysis

SESSION 3-E: AIRLINE MANAGEMENT AND STRATEGY II – ROOM 2

Chair: Terence Fan, Singapore Management University, Singapore

- 90 Jost Daft, Sascha Albers *University of Cologne, Germany*
The Convergence of Airline Business Models. An Empirical Analysis of European Passenger Airlines
- 155 J. F. O'Connell *Cranfield University, UK*
D. Warnock-Smith *University of Huddersfield, UK*
An Examination of the Possible Future Trends in Airline Ancillary Revenues
- 169 Sukru Nenem, Nigel Dennis, Anne Graham *University of Westminster, UK*
A Method for Developing a Consumer Preference Centric Airline Schedule Quality Metric
- 241 Oriol Lordan, Jose M Sallan, Pep Simo, *Universitat Politècnica de Catalunya, Spain*
David Gonzalez-Prieto, *Volotea, Spain*
Jordi Bigorra *Independent Researcher, Spain*
Preliminary Study of the Full-Service and Low-Cost Carriers Network Configuration
- 350 Ian Douglas *University of New South Wales, Australia*
Blurred Boundaries. Airline Business Model Convergence

SESSION 3-F: LOW COST CARRIERS III – ROOM 55

Chair: Richard Klophaus, Worms University of Applied Sciences, Germany

- 183 Branko Bubalo, *University of Hamburg, Germany*
Alberto A. Gaggero *University of Pavia, Italy*
Low Cost Carriers and Airline Punctuality in Europe
- 74 Yu-Chun Chang *National Taiwan Ocean University, Taiwan*
Factors Affecting Passengers' Behavioral Intentions to Fly Low-cost Carriers to Taiwan
- 137 Koichi Tanaka *Ibaraki University, Japan*
Geographical Analysis on Change of Nodal Structure and Network Expansion of Low Cost Carriers in Japan
- 287 Rogeria de Arantes Gomes Eller *Technological Institute of Aeronautics, Brazil*
Say's Law Application to Air Transportation: The Case of Azul Airlines in Brazil

SESSION 3-G: AVIATION SAFETY III – ROOM 22

Chair: Jorge Silva, University of Beira Interior, Portugal

- 79 Jose Francisco Barboza Lobianco, Anderson Ribeiro Correia *Aeronautics Institute of Technology, Brazil*
Methodology to Obtain Airport Safety Indicators Using Safety Management Systems
- 165 Yu-Hern Chang, Hubert J. Chen, Pei-Chi Shao *National Cheng Kung University, Taiwan*
A Performance Evaluation on Airport Safety Management System in Taiwan
- 51 Joao Luiz de Castro Fortes, Anderson Ribeiro Correia, Carlos Muller *Aeronautics Institute of Technology, Brazil*
Impacts of Different Operational Conditions in Risk Assessment for an Airport

SESSION 3-I: AIR TRANSPORT DEMAND I – ROOM 4

Chair: Dieter Wilken, German Aerospace Center, Germany

- 120 Nobuo Akai, Munekatsu Usami *Osaka University, Japan*
Analysis for Primary Factors for Flight Choice - Examination of Pursuit for Convenience and Opportunity Cost on Air Travel in Multi-Airport Region: Greater Osaka
- 69 Yi Hsin Lin *Asia University, Taiwan*
Kuancheng Huang *National Chiao Tung University, Taiwan*
Analyzing the Willingness-to-Pay for Air Tickets Under the Implementation of Revenue Management
- 300 Jan Veldhuis, *Amsterdam Aviation Economics, The Netherlands*
The Long Term Potential of Hubs
- 221 Morteza Khashaypoor *Tehran Traffic and Transportation Organization, Iran*
Kambiz Mostofi Darban, Bahram Ahadi *Pars Masir Gostar Consulting Engineers, Iran*
Development of Demand Diversion Models for Low-cost Carrier Airlines Based on Logit Structure (Case Study in Iran)

CONCURRENT SESSION 4 (FRIDAY, JUNE 28, 10:30 – 12:00)

SESSION 4-A: AIR TRANSPORT DEVELOPMENT AND POLICY II – ROOM 5

Chair: Alvaro Costa, Universidade do Porto, Portugal

- 29 Frank Fichert *Worms University of Applied Sciences, Germany*
Peter Forsyth *Monash University, Australia*
Hans-Martin Niemeier *University of Applied Sciences Bremen, Germany*
Aviation Taxes: Analyzing Impacts and Interactions with Other Instruments
- 32 Nadine Itani, John F. O'Connell, Keith Mason *Cranfield University, UK*
Towards Realizing Best-Fit Civil Aviation Strategy Scenarios
- 43 Andreas Polk *Berlin School of Economics and Law, Germany*
Lobbying in the Aviation Industry: A Case Study for Frankfurt Airport
- 338 Wilfred S. Manuela Jr. *Ateneo de Manila University, Philippines*
Manuel J. de Vera *Asian Institute of Management, Philippines*
The Impact of Government Failure on Tourism in the Philippines

SESSION 4-B: AVIATION AND ENVIRONMENTS IV – ROOM 3

Chair: Tae Seung Kim, Inha University, Korea

- 271 Annela Anger *University of East Anglia, UK*
Estimating the Impacts of Including Aviation in the EU ETS by Using Endogenous Carbon Price
- 211 Cherie Lu, Ming-Tao Chou *Chang Jung Christian University, Taiwan*
The Implications of Carbon Trading and Offset Schemes on the Aviation Industry: How Are the Carbon Trading Price and Fuel Price Linked?
- 175 Eva Ruiz Ibanez, Chikage Miyoshi *Cranfield University, UK*
Analysis of the Impact of the EU ETS on African Airlines: Network and Fleet
- 132 Ali Mansour Khaki *University of science and technology, Iran*
Amir Esmael Forouhid *University of Science & Technology, Iran*
Mahdi Yazdan Panah *Khaje Nashir University, Iran*
Hazardous of Air pollution in the KIA Airport Operations and Methods for Controlling It

SESSION 4-C: AIRPORT PERFORMANCE I – ROOM 1

Chair: Daniel Sallier, Aéroports de Paris, France

- 92 Anne Graham, Nigel Dennis *University of Westminster, UK*
The Traffic and Financial Performance of UK Regional Airports 2003-2013
- 301 Joost Zuidberg *SEO Economic Research, Netherlands*
The Key Drivers for an Airport's Financial Performance
- 272 Tolga Ulku *Humboldt University of Berlin, Germany*
An Empirical Analysis of Airport Groups: AENA and DHMI
- 318 Luis Odair Azevedo Gomes Raymundo, *Universidade Federal do Rio de Janeiro (UFRJ), Brazil*
Carlos Alberto Nunes Cosenza
A Proposal for a Performance Evaluation of Airport Administration Using Fuzzy Concept

SESSION 4-D: AIRLINE ECONOMICS I – ROOM 42

Chair: Yimin Zhang, China Europe International Business School, China

- 216 Christiaan Behrens, Mark G. Lijesen *VU University Amsterdam, Netherlands*
Capacity Choice Under Uncertainty with Product Differentiation
- 130 Baek-Jae Kim, Kwang-Eui Yoo *Korea Aerospace University, Korea*
Youn-Chul Choi *Hanseo University, Korea*
Changes of Airlines Profit Structure and Network Operation Influenced by Internalization of External Costs
- 66 Wolfgang Grimme *German Aerospace Center (DLR), Germany*
When Size Matters - Some Insights into the Frequency vs. Aircraft Size Trade-off in Long-Haul Air Transport Development
- 309 Nicole Adler *Hebrew University, Israel*
Antonio P. Antunes, Joao P. Pita *Coimbra University, Portugal*
Welfare-based Schedule Design and Fleet Assignment with an Application to a Norwegian Network
- 138 Davide Scotti *University of Bergamo, Italy*
Martin Dresner *University of Maryland, USA*
The Impact of Baggage Fees on Passenger Demand on US Air Routes

SESSION 4-E: AIRLINE MANAGEMENT AND STRATEGY III – ROOM 54

Chair: Christian Hofer, University of Arkansas, USA

- 203 Noriko Okabe *Aoyama Gakuin University, Japan*
Characteristics in Airline Industry, Application of Principal Component Analysis
- 344 Suiling Li *National Penghu University of Science and Technology, Taiwan*
Study on Aircraft Allocation of Taiwanese Airlines in Cross-Strait Air Markets
- 246 Jin-Ru Yen, Tsung-Hsun Liu, Lung-Chuan Hsieh *National Taiwan Ocean University, Taiwan*
Applying Real-Time Information to Optimize the Flight Path for Airlines
- 297 Terrance Fan Ping-Ching *Singapore Management University, Singapore*
Fast Capacity Expansions and Failure: A Trap for New Airline Entrants
- 88 Kuancheng Huang, Wan-Ting Liu *National Chiao Tung University, Taiwan*
Solving the Choice-Based Network Revenue Management Problem by the Approach of Parameterized Function Approximation

SESSION 4-F: AIR TRANSPORT IN CHINA – ROOM 55

Chair: Japhet Law, Chinese University of Hong Kong, Hong Kong

- 331 Li Zhang, Jingjing Yao, Huaqing Hu, Zheng Peng *China Academy of Civil Aviation Science and Technology, China*
China Air Cargo Transport: The Status Quo and Solutions
- 321 Xiaowen Fu *University of Sydney, Australia*
Kun Wang *Hong Kong Polyethnic University, Hong Kong*
Zheng Lei *Cranfield University, UK*
Jia Yan *Washington State University, USA*
Low-cost Carrier in China: Spring Airline's Effect on Market Competition and its Entry Pattern

- 35 Xinhui Ren, Qiling Sun *Civil Aviation University of China, China*
An Analysis of Connectivity Level and the Loss of Cut-off Point of Domestic Air Network in China
- 351 Yang Yan Yang, Liu Wei *Dalian Maritime University, China*
 Japhet Law *Chinese University of Hong Kong, China*
Application of Complex Networks on Airport Customer Management in China

SESSION 4-G: HUMAN FACTORS AND SAFETY – ROOM 22

Chair: Erin Bowen, Purdue University, USA

- 97 Peter Bruce, Yi Gao, David Newman, Natalia Rajendran *Swinburne University of Technology, Australia*
A Comparative Study of Flight Crews' Attitudes Toward the Safety Climate of a Commercial Airline from 2011 to 2012
- 14 Ching-Fu Chen *National Cheng Kung University, Taiwan*
 Shu-Chuan Chen *Aletheia University, Taiwan*
Exploring the Effects of Job Demands and Job Resources on Cabin Crew Safety Behaviors
- 19 Rodney O. Rogers *Embry-Riddle Aeronautical University, USA*
Preliminary Results of an Online Survey to Determine Air Transport Pilot Attitudes Toward Upset Prevention and Recovery Training
- 42 Sara Zorro, André Marques, Luís Patrão, Ana Coelho, Jorge Silva *University of Beira Interior, Portugal*
Pilots Performance and Flight Safety: Flight Physiology in Unpressurized Aircraft Cabins
- 126 Yi Gao, Peter J. Bruce, David G. Newman, Natalia Rajendran *Swinburne University of Technology, Australia*
Safety Climate of Crew Members: A Cross-Sectional Investigation of Flight Crew and Cabin Crew

SESSION 4-H: AIRLINE AND AIRPORT RELATION I – ROOM 2

Chair: Gianmaria Martini, University of Bergamo, Italy

- 162 Pere Suau-Sanchez *Cranfield University, UK*
 Guillaume Burghouwt *SEO Economic Research, Netherlands*
 Xavier Fageda *Universitat de Barcelona, Spain*
Identifying the Determinants for Market De/Concentration in the US and the EU, 1990-2009
- 86 Hideki Fukui *Ehime University, Japan*
Effect of Slot Trading on Route-Level Competition: Evidence from Experience in the UK
- 231 Ricardo Flores-Fillol, *Universitat Rovira i Virgili, Spain*
 Xavier Fageda *Universitat de Barcelona, Spain*
Airport Congestion and Airline Network Structure
- 116 Volodymyr Bilotkach *Newcastle University, UK*
 Juergen Mueller *HWR, Germany*
 Adel Nemeth *University of Applied Sciences, Germany*
Value of Airline Networks: Case of a Hub Operator Bankruptcy
- 146 Ming Hsin Lin *Osaka University of Economics, Japan*
Airport Congestion Pricing and Airline Network Choices

SESSION 4-I: AIR TRANSPORT DEMAND II – ROOM 4

Chair: David Pitfield, Loughborough University, UK

- 302 Ivica Kovacic *International Air Transport Association, Canada*
Bijan Vasigh *Embry-Riddle Aeronautical University, USA*
Ruzica Skurla Babic *University of Zagreb, Croatia*
Quality of Service Index Factors and Passenger Perspective Implication
- 249 Dominik Grether, Kai Nagel *TU of Berlin, Germany*
Agent-Based Modelling of Air Transport Demand
- 134 Kwang Eui Yoo, Se-Yeon Jung *Korea Aerospace University, Korea*
A Comparative Analysis of Two Papers on Passengers' Airline Choice Issue
- 240 Oriol Lordan, Pep Simo Jose M Sallan *Universitat Politècnica de Catalunya, Spain*
Marta Setien *Vueling Airlines, Spain*
David Gonzalez-Prieto, *Volotea, Spain*
A Panel Data Model of Passenger Air Transport Demand

CONCURRENT SESSION 5 (FRIDAY, JUNE 28, 14:00 – 15:30)

SESSION 5-A: AIRPORT REGULATION AND PRIVATIZATION I – ROOM 54

Chair: Chaouki Mustapha, International Civil Aviation Organization, Canada

- 28 Paul Hooper, *University of New South Wales, Australia*
Margaret Arblaster *Monash University, Australia*
Light Handed Regulation - its Relevance in the Developing World
- 327 Hans-Martin Niemeier *University of Applied Sciences, Germany*
Peter Forsyth *Monash University, Australia*
Juergen Mueller *Berlin School of Economics and Law, Germany*
Incentive Regulation of Airports - An Economic Assessment
- 255 Enzo Defilippi *Universidad del Pacifico, Peru*
X-Factor Setting in a Developing Country: The Case of Lima's Airport
- 282 Chris Cain, Rich Barone *London's Aviation Peer Review Group, UK*
NYLON Airports - The Challenge of Retaining Globally Competitive Airport Systems to Serve the Highest Ranked World Cities - New York and London?

SESSION 5-B: AVIATION AND ENVIRONMENTS V – ROOM 3

Chair: Annela Anger-Kraavi, University of East Anglia, UK

- 172 Chikage Miyoshi *Cranfield University, UK*
Piet Rietveld *VU University Amsterdam, Netherlands*
Measuring the Equity Effects of Carbon Charge on Car Commuters: A Case Study of Manchester Airport
- 334 Dr. Ma Xiangshan *China Academy of Civil Aviation Science and Technology, China*
China's Policies and Actions on Greenhouse Gas Emissions from International Aviation
- 129 Tzu-Ying Chen, Rong-Chang Jou *National Chi Nan University, Taiwan*
Chung-Wei Kuo *Aletheia University, Taiwan*
Willingness to Pay of Air Passengers for Carbon-Offset Policy
- 173 Romain Neveux, Chikage Miyoshi *Cranfield University, UK*
The Impact of the EU-ETS on European LCCs: A Case Study of EasyJet

SESSION 5-C: AIRPORT PERFORMANCE II – ROOM 5

Chair: Anne Graham, University of Westminster, UK

- 330 Laingo Manitra Randrianarisoa, Denis Bolduc *Laval University, Canada*
Yap Yin Choo, Tae Hoon Oum *University of British Columbia, Canada*
Jia Yan *Washington State University, USA*
Effects of Corruption on Efficiency of the European Airports
- 279 Jurgen Muller, *Berlin School of Economics and Law, Germany*
Hans-Martin Niemeier, *University of Applied Sciences Bremen, Germany*
Nicole Adler *University of Jerusalem, Israel*
Benchmarking the efficiency of Norways Avinor's airports: The politics of maintaining an inefficient National System
- 151 Masamitsu Onishi *Kyoto University, Japan*
Shinya Hanaoka *Tokyo Tech, Japan*
Ownership Structure of Multiple Airports and Economic Efficiency
- 259 Eleni Rapti, Francesca Medda *QASER Laboratory University College London, UK*
Environmental Efficiency Analysis Of The Airport Industry: A Parametric Distance Functions Approach

SESSION 5-D: AIRLINE ECONOMICS II – ROOM 42

Chair: Xavier Fageda, Universitat de Barcelona, Spain

- 153 Paolo Malighetti, Stefano Paleari *University of Bergamo, Italy*
Renato Redondi *University of Brescia, Italy*
EasyJet Pricing Strategy: Determinants and Developments
- 63 Yi Zhang, Xingwu Zheng *Civil Aviation University of China, China*
Multimarket Contact and Pricing Competition in China's Airline Industry
- 291 Zheng Lei, Kirtirajsinh Parmar *Cranfield University, UK*
The Effects of Middle East Carriers on Airfares in the India – Europe Market
- 280 Angela S. Bergantino, Claudia Capozza *University of Bari, Italy*
Airline Pricing Behaviour Under Limited Intermodal Competition

SESSION 5-E: AIRLINE MANAGEMENT AND STRATEGY IV – ROOM 1

Chair: Ian Douglas, University of New South Wales, Australia

- 78 Steven Leon *University of Central Florida, USA*
Joseph Szmerekovsky, Denver Tolliver *North Dakota State University, USA*
A Risk Mitigation Approach to Strategic Capacity Allocation: An Airline Perspective
- 144 Karl Nachtigall, Steffen Marx *Technische Universität Dresden, Germany*
A Decision Support System for Seasonal Flight Scheduling by Using Linear Optimization and Transport Demand Modeling
- 289 Kevin Lin *Technische Universität Darmstadt, Germany*
Mark Azzam *Massachusetts Institute of Technology, USA*
Christoph Wollersheim, Alex Cosmas *Booz Allen Hamilton Inc., USA*
An Empirical Airline Analytics Tool Based on Bayesian Networks

- 115 Yu-Chiun Chiou, Chia-Hsin Liu, Chih-Wei Hsieh *National Chiao Tung University, Taiwan*
Key Factors Contributing to the Total Operating Cost of Taiwan Domestic Air Routes

SESSION 5-F: AIRPORT ECONOMICS I – ROOM 55

Chair: Jan Veldhuis, Amsterdam Aviation Economics, The Netherlands

- 49 Tobias Grosche *Airconomy Aviation Intelligence GmbH, Germany*
Richard Klophaus *Worms University of Applied Sciences, Germany*
Hubs at Risk: Exposure of Europe`s Largest Hubs to Competition on Transfer City-Pairs
- 204 Valentina Bracaglia , Tiziana D'Alfonso , Alberto Nastasi *Sapienza Universita di Roma, Italy*
Airports and Airlines E-Commerce Strategies: The Effect of Air Ticket Pricing on Passenger Demand for Commercial Services
- 118 Annika Paul *Bauhaus Luftfahrt e.V., Germany*
European Hub Airport Development in the Face of Increasing Competition

SESSION 5-G: AIRPORT OPERATION I – ROOM 22

Chair: Anderson Correia, Aeronautics Institute of Technology, Brazil

- 96 Chung-Wei Kuo *Aletheia University, Taiwan*
Mei-Ling Tang *Chienkuo Technology University, Taiwan*
Rong-Chang Jou *National Taiwan University, Taiwan*
A Study on Airline Passengers' Behavior Intention to Use Self-Service Check-in Kiosks- from Taiwanese Air Passengers' Perspectives
- 237 Chung-Wei Kuo *Aletheia University, Taiwan*
Mei-Ling Tang *Chienkuo Technology University, Taiwan*
Rong-Chang Jou *National Taiwan University, Taiwan*
An Empirical Study of Check-In Services Choice Behaviour for Air Passengers
- 9 Andreas Wittmer *University of St. Gallen, Switzerland*
Customer Value of Airport Security Services
- 283 Perry J. Miller *William P. Hobby Airport, USA*
Security Screening Checkpoint Wait Times: An Analysis of the Average Peak Wait Times at William P. Hobby Airport – Continued

SESSION 5-H: AIRLINE AND AIRPORT RELATION II – ROOM 2

Chair: Sascha Albers, University of Cologne, Germany

- 254 Florian Allroggen *Muenster University, Germany*
Robert Malina *Massachusetts Institute of Technology, USA*
Ann-Katrin Lenz *Berlin Institute of Technology, Germany*
Why Do Airports Apply Incentive Schemes? An Empirical Analysis
- 229 Katsuya Hihara *University of Tokyo, Japan*
Multi-sided Analysis of Airport - Airline Risk Sharing Contract
- 60 Hangjun Yang *University of International Business and Economics, China*
Anming Zhang *University of British Columbia, Canada*
Xiaowen Fu *University of Sydney, Australia*
Determinants of Airport - Airline Vertical Relationships- Analytical Results and Empirical Evidence

- 212 Batari Saraswati, Shinya Hanaoka *Tokyo Institute of Technology, Japan*
Airline-Airport Cooperation in Commercial Revenue Sharing: Network Approach
- 159 Owain Cai Jones, Lucy C.S. Budd, D. E. Pitfield *Loughborough University, UK*
Aeronautical Charging Policy Incentive Schemes for Airlines at European Airports

SESSION 5-I: AIRLINE MARKETING I – ROOM 4

Chair: Nigel Dennis, University of Westminster, UK

- 81 Chrystal Zhang, Bo Huang, Jaibei Liu, Wesley Robertson, Ignatius Soegeng, Aaron Yar Lun Wong *Swinburne University of Technology, Australia*
Are Airlines Interactively Communicating with Their Users at Social Media?
- 93 Rong Qin *RMIT University, Australia*
Innovation Makers or Trend Followers: The Utilization of Social Networking Service in the Airline Industry
- 190 Seung Chang Lee, Sanghak Lee, Sun Hee Baek *Korea Aerospace University, Korea*
How Trust and Commitment in Airlines' Mileage Program Affect the Customers' Loyalty
- 131 William Jen, Mingying Lu
Selecting or Rejecting? Exploring Option Framing and Trip Purpose Affect Passengers' Choice of Airlines Services

CONCURRENT SESSION 6 (FRIDAY, JUNE 28, 16:00 – 17:30)

SESSION 6-A: AIRPORT REGULATION AND PRIVATIZATION II – ROOM 54

Chair: Hans-Martin Niemeier, University of Applied Sciences Bremen, Germany

- 336 Farhan Ahmed *University of Lincoln, UK*
A Critical Evaluation of the Impact on Competition of Changing Ownership Structures in UK Airports
- 315 Carlos Oliveira Cruz *Instituto Superior Tecnico, Portugal*
 Alvaro Costa *FEUP, Portugal*
 Fabiene Costa *INFRAERO, Brazil*
The Recent "Wave" of Airport Privatization Processes: The Case of Portugal and Brazil
- 295 Sakti Adji Adisasmita, Kiyoshi Kobayashi, Masamitsu Onishi, Suharman Hamzah *Hasanuddin University, Indonesia*
Airport Privatization, Theory and Analysis : Suitable Model for Indonesian Airports?
- 71 Pavlos Arvanitis, Andreas Papatheodorou *University of the Aegean, Greece*
Greek Airports at Crossroads - Past, Present and Future

SESSION 6-B: AIRLINE NETWORK DEVELOPMENT I – ROOM 3

Chair: Guillaume Burghouwt, SEO Economics Research, The Netherlands

- 22 Hatice Kucukonal, Leyla Adiloglu *Ozyegin University, Turkey*
 Hakan Oktal *Anadolu University, Turkey*
Airport Network in Turkey: How to Increase its Efficiency
- 199 Hugo E. Silva *VU University, Netherlands*
Sufficient Policy Instruments in Aviation Networks

- 21 Christian Hofer *University of Arkansas, USA*
 Cuneyt Eroglu *D'Amore-McKim School of Business, USA*
The Effect of Gulf Carrier Entry on Legacy Carrier Traffic: An Exploratory Analysis of US Data
- 171 Jean-Baptiste Dargelosse, Chikage Miyoshi *Cranfield University, UK*
Air Travel Passengers' Choice Model: Strategic Analysis of IAG's South-Atlantic Routes
- 181 Ricardo Rodrigues Pacheco *Empresa Brasileira de Infraestrutura Aeroportuaria, Brazil*
 Marcia Estrada Braga, Elton Fernandes *Universidade Federal do Rio de Janeiro, Brazil*
Spatial Concentration and Connectivity of International Passenger Traffic at Brazilian Airports

SESSION 6-C: AIRPORT PERFORMANCE III – ROOM 5

Chair: Shinya Hanaoka, Tokyo Institute of Technology, Japan

- 195 Peter Biesslich *Hamburg University of Technology, Germany*
Parametric Reference Airports
- 40 Maria Emilia Baltazar, Joao Jardim, Pedro Alves, Jorge Silva *University of Beira Interior, Portugal*
Air Transport Performance and Global Decision Analysis
- 48 Liliana Magalhaes, Vasco Reis, Rosario Macario *Instituto Superior Tecnico, Portugal*
Factor and Cluster Analysis Applied to Flexible Airports' Performance Data
- 207 Tiziana D'Alfonso, Cinzia Daraio, Alberto Nastasi *Sapienza Universita di Roma, Italy*
Assessing the Impact of Competition on the Efficiency of Italian Airports

SESSION 6-D: AIRLINE ECONOMICS III – ROOM 4

Chair: Paolo Malighetti, University of Bergamo, Italy

- 101 Nigel Dennis, Kenneth P. Stevens *University of Westminster, UK*
Strategies of Major Carriers Away from Their Main Hub Airports: A Comparison of the European and US Experience
- 152 Shengrun Zhang, Ben Derudder, Frank Witlox *Gent University, Belgium*
Impact of Hub Hierarchy, Alliances and Concentration on Airfare Pricing in European Hub-to-Hub Markets
- 303 Ruowei Chen, Zheng Lei *Cranfield University, UK*
Airport Dominance and Market Power in Chinese Domestic Market
- 210 Massimiliano Castellani, Pierpaolo Pattitoni, Lorenzo Zirulia *University of Bologna, Italy*
Temporal Interdependencies and Regimes in Passenger Flows: Evidence from Airport and Port of Emerald Coast

SESSION 6-E: AIRLINE PERFORMANCE I – ROOM 1

Chair: Anthony Chin, National University of Singapore, Singapore

- 147 Martin Phillips, P.J. Byrne, Malcolm Brady *Dublin City University Business School, Ireland*
Measuring Company Performance in Air Transport
- 64 Xingwu Zheng, Yi Zhang *Civil Aviation University of China, China*
What supported the Growth of China's Air Transport Industry from 1955-2011

- 239 Peter Morrell *Cranfield University, UK*
Sources of Airline Competitive Advantage: Labour Productivity
- 136 Muhammad Asraf Abdullah, Susila Munisamy, Nurulhuda Mohd Satar *University of Malaya, Malaysia*
Benchmarking Efficiency of Airlines in Asia Using Data Envelopment Analysis Metafrontier Approach: A Preliminary Finding
- 61 James Pearson *Loughborough University, UK*
 Rico Merkert *University of Sydney Business School, Australia*
Does Airline Customer Satisfaction Matter? Linking Customer Satisfaction with Airline Financial Performance

SESSION 6-F: AIRPORT ECONOMICS II – ROOM 55

Chair: Renato Redondi, Università degli Studi di Brescia, Italy

- 170 Enric Cuadras Oliva, Chikage Miyoshi *Cranfield University, UK*
A New Approach to Runway Charges: Case Study of Manchester Airport
- 247 Rustamdjan Hakimov *Humboldt University of Berlin, Germany*
 Juergen Mueller *Berlin School of Economics and Law, Germany*
 Gordana Savic *University of Belgrade, Serbia*
Charges of Uncongested German Airports: Do They Follow Ramsey Pricing Scheme?
- 189 Kensuke Unami, Masamitsu Onishi, Kiyoshi Kobayashi, *Kyoto University, Japan*
 Wakako Mantani
Landing Fee Pricing in Domestic and International Hub Airport Based on Two-sided Market Model
- 247 Rustamdjan Hakimov, Savia Hasanova *Humboldt University of Berlin, Germany*
 Juergen Mueller *Berlin School of Economics and Law, Germany*
Assessing the Evolution of Airport Charges and Their Structure in Germany from 1997 to 2011

SESSION 6-G: AIRPORT OPERATION II – ROOM 22

Chair: Andreas Wittmer, University of St. Gallen, Switzerland

- 73 Triant Flouris, Konstantinos Kalligiannis *Hellenic American University, USA*
Importance of Passenger Service Quality at Airports: The Athens International Airport Case
- 281 Axel Budde, Jaap de Wit *University of Amsterdam, Netherlands*
Arrival/Departure Patterns as Measures of Connectivity
- 6 Sakti Adji Adisasmita *Hasanuddin University, Indonesia*
Airport Location: Theory and Analysis
- 70 Ioulia Poulaki, Andreas Papatheodorou *University of the Aegean, Greece*
Rethinking "Airport Catchment Area": Intermodality for an Air Travel Alternative
- 333 Iara Cristina Pereira Lima de Paiva, Ian Lima Barreto, *Instituto Tecnológico de Aeronáutica, Brazil*
 Carlos Müller, Anderson Ribeiro Correia
Simulation Modeling for Airport Passenger Terminals: A Case Study of Sao Paulo Domestic Airport

SESSION 6-H: AIRLINE AND AIRPORT RELATION III – ROOM 2

Chair: Katsuya Hihara, University of Tokyo, Japan

- 114 Volodymyr Bilotkach
Xavier Fageda
Ricardo Flores-Fillol
The Effects of Airline Consolidation on the Distribution of Traffic Between Primary and Secondary Hubs
Newcastle University, UK
University of Barcelona, Spain
University Rovira i Virgili, Spain
- 347 Nadezda Volkova
Jürgen Müller
LCC Impact on the US Airports' Business
Ernst & Young LLP, UK
German Airport Performance Project, Germany
- 267 Kelly Yujie Wang, Tsz Leung Yip
Lei Zheng
Low-Cost Airlines Competition and Airport Choice between Primary and Secondary
Hong Kong Polytechnic University, Hong Kong
Cranfield University, USA
- 341 Yap Yin Choo, Tae Hoon Oum
Impact of Low Cost Carriers on US Airport Efficiency
University of British Columbia, Canada
- 337 Hun-Koo Ha
Yulai Wan, Anming Zhang
Yuichiro Yoshida
Airline Market Structure and Airport Efficiency: Evidence from Major Northeast Asian Airports
Inha University, Korea
University of British Columbia, Canada
National Graduate Institute for Policy Studies, Japan

SESSION 6-I: AIRLINE MARKETING II– ROOM 42

Chair: Blaise Waguespack, Embry Riddle Aeronautical University, USA

- 100 Whei-Li Lu, Jo-Ying Chang, Tzeng-Hua Yang
Airline Passengers Consideration Determinants in Selection Booking Channel
Chinese Culture University, Taiwan
- 50 Robert Mayer
Tim Ryley, David Gillingwater
An Analysis of Green Market Segments Amongst Air Passengers
University of Huddersfield, UK
Loughborough University, UK
- 214 David Gonzalez-Prieto, Oriol Lordan,
Pep Simo, Jose M Sallan
Aleix Alegre
Unavailability of Promotional Fares and Traditional Decoy Options: A Consumer Response Study
Universitat Politècnica de Catalunya. BarcelonaTech, Spain
Consultant, Spain
- 127 Whei-Li Lu, Yi-Hsing Lee
Corporate Account Concerns when Contracting with Airlines
Chinese Culture University, Taiwan

CONCURRENT SESSION 7 (SATURDAY, JUNE 29, 08:30 – 10:00)

SESSION 7-A: AIR TRANSPORT LIBERALIZATION AND OPEN SKIES – ROOM 2

Chair: Federica Origo, University of Bergamo, Italy

- 33 Jian-Yu Ke
Robert J. Windle
Are Skies Open Enough? A Study on The Diminishing Effect of Open Skies Agreements
University of Wisconsin-Eau Claire, USA
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Useful information for your travel and stay in Bergamo for the ATRS 2013

CONFERENCE PROGRAM

The conference program is available at <http://www.atrsworld.org> and <http://www.atrs2013.org>

A hard copy of the program will also be in your conference program when you check-in.

CONFERENCE VENUE

The 2013 ATRS world conference will be held in the Upper Town of Bergamo (the hilltop medieval town surrounded by 17th century Venetian defensive walls).

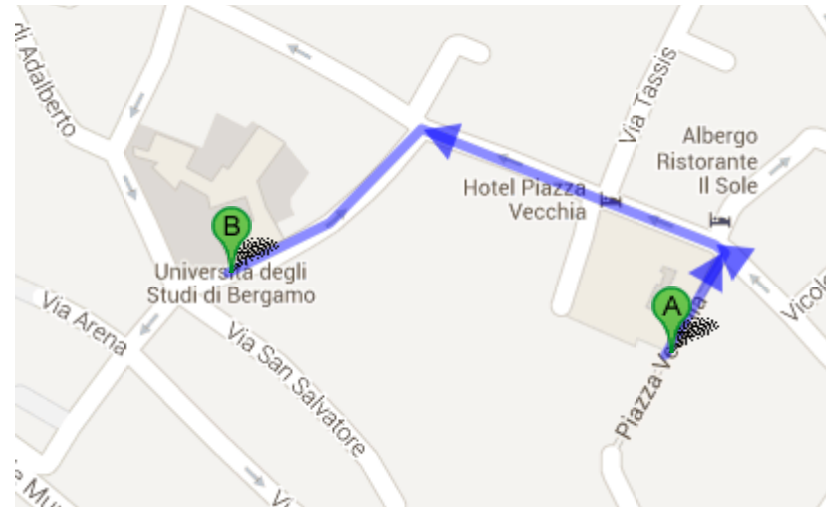
Opening Welcome Addresses, Plenary Sessions and launches will be held at the Conference Hall, **Seminario Vescovile Giovanni XXIII** – *via Arena* 11, 24129 Bergamo (Upper Town, point B Figure below).

The Welcome Reception, all the concurrent sessions and the closing ceremony will be held at the **Università degli Studi di Bergamo** – *via Salvecchio* 19, 24129 Bergamo (Upper Town, point A Figure below).



The distance between Seminario Vescovile Giovanni XXIII and Università degli Studi di Bergamo – *via Salvecchio* is about 100 m (see the Figure below).

The Gala dinner will be held in **Piazza Vecchia**, the main square of the upper town (with the neighbouring Piazza del Duomo (cathedral square) it forms the centre) under the open colonnade of the *Palazzo della Ragione* (a late 12th century building). The dressing code for the Gala Dinner is business casual (tie optional). The distance between Piazza Vecchia and Università degli Studi di Bergamo – via Salvecchio (where concurrent sessions are held) is about 200 m (see the Figure below).



TRANSPORT TO/IN BERGAMO

How to reach Conference Venue from Bergamo Train Station or Bergamo's Caravaggio International Airport:

BUS Number #1 towards Colle Aperto (final destination): Get off at the stop #40, viale delle Mura, Seminario.

Time and frequency: From 6.05 to 00.15

One way fare: € 2.10 (from the airport, blue ticket in the picture below) and € 1.25 (from Bergamo train Station, green ticket in the picture below)

Ticket desk: Tickets are sold at Turismo Bergamo office and at the dispensers (Airport) or at the newspaper kiosks (train station).

Company providing the service: ATB (www.atb.bergamo.it)

Call center: +39 035 236026

Travel Time:

- from the airport -> about 20 minutes.
- from the Train Station -> about 5 minutes.



SINGLE TICKET FROM TRAIN STATION → € 2,10

This ticket allows only one ride from Bergamo Train Station to *Colle Aperto* within 90 minutes from validation.



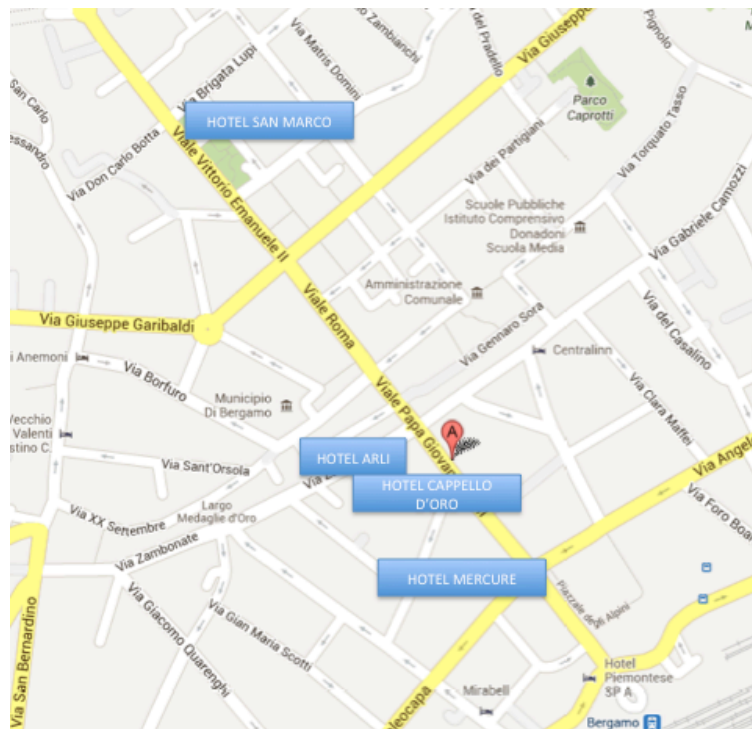
SINGLE TICKET FROM AIRPORT → € 2,10

This ticket allows only one ride from Bergamo - Airport and the use of ATB all lines of the urban area, including funicular railways and the tramway T1, within 90 minutes from validation.

In the case your luggage is larger than cm 20x40x60 you must purchase and validate a second ticket.

BUS SERVICE FROM CONFERENCE HOTELS TO CONFERENCE VENUE

There is a free of charge bus service connecting the lower town (the unique stop is located near the main hotels, see the point A in the picture below in viale Papa Giovanni XXIII) and the conference venues.



The timetable is as follows:

DAY	EVENT	N.	ROUTE	TIME SCHEDULE
26/06/13	WELCOME RECEPT.	1 BUS	CHIESA ALLE GRAZIE stop - Upper Town, Seminario	17.45
26/06/13	WELCOME RECEPT.	1 BUS	Upper Town, Seminario - CHIESA ALLE GRAZIE stop	20.15
27/06/13	CONFERENCE	2 BUS	CHIESA ALLE GRAZIE stop - Upper Town, Seminario	08.00
27/06/13	CONFERENCE	2 BUS	CHIESA ALLE GRAZIE stop - Upper Town, Seminario	08.15
27/06/13	CONFERENCE	2 BUS	Upper Town, Seminario - CHIESA ALLE GRAZIE stop	18.00
27/06/13	CONFERENCE	2 BUS	Upper Town, Seminario - CHIESA ALLE GRAZIE stop	18.30
28/06/13	CONFERENCE	2 BUS	CHIESA ALLE GRAZIE stop - Upper Town, Seminario	08.00
28/06/13	CONFERENCE	2 BUS	CHIESA ALLE GRAZIE stop - Upper Town, Seminario	08.15
28/06/13	CONFERENCE	2 BUS	Upper Town, Seminario - CHIESA ALLE GRAZIE stop	18.00
28/06/13	CONFERENCE	2 BUS	Upper Town, Seminario - CHIESA ALLE GRAZIE stop	18.30
28/06/13	GALA DINNER	2 BUS	CHIESA ALLE GRAZIE stop - Upper Town, Seminario	19.30
28/06/13	GALA DINNER	2 BUS	CHIESA ALLE GRAZIE stop - Upper Town, Seminario	20.00
28/06/13	GALA DINNER	2 BUS	Upper Town, Seminario - CHIESA ALLE GRAZIE stop	23.00
28/06/13	GALA DINNER	2 BUS	Upper Town, Seminario - CHIESA ALLE GRAZIE stop	23.30
29/06/13	CONFERENCE	2 BUS	CHIESA ALLE GRAZIE stop - Upper Town, Seminario	08.00
29/06/13	CONFERENCE	2 BUS	CHIESA ALLE GRAZIE stop - Upper Town, Seminario	08.15
29/06/13	CONFERENCE	2 BUS	Upper Town, Seminario - CHIESA ALLE GRAZIE stop	13.00
29/06/13	CONFERENCE	2 BUS	Upper Town, Seminario - CHIESA ALLE GRAZIE stop	13.30

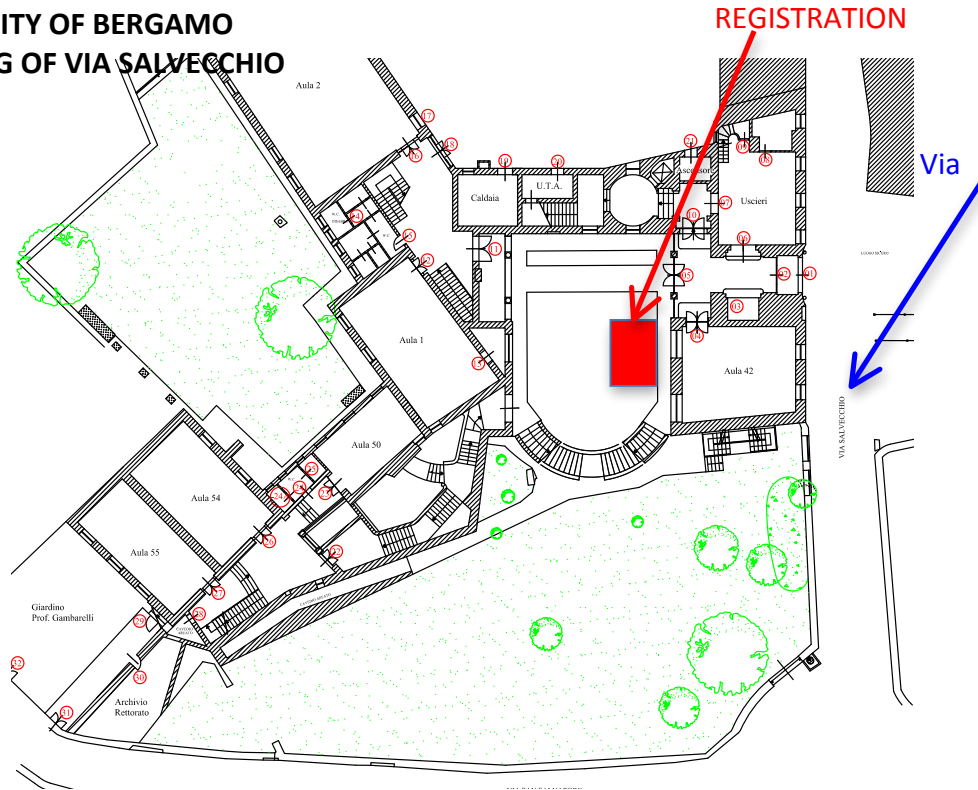
DRIVING CARS IN THE UPPER TOWN

It is important to know that many parts of the Upper Town are limited traffic zones. So if you intend to reach the conference venue by car, pay a lot of attention to the electronic signals "ZTL" because they delimitate the parts of the Upper Town in which cars are not allowed to enter: there are cameras controlling these areas and penalties are quite expensive. Furthermore, notice that almost all parking areas are with fee (about € 1.6 per hour mostly to pay by cash).

REGISTRATION

ATRS delegates can register on 26th June from 18:00 to 20:00 at the playground of the **University of Bergamo** in via Salvecchio 19, as shown on the red area below. The registration desk will then move to the **Seminario Vescovile**, via Arena 11, in the morning of 27th June, and will be moved back again to the University of Bergamo (red area) for the rest of the conference.

UNIVERSITY OF BERGAMO BUILDING OF VIA SALVECCHIO



GETTING FROM MILAN AIRPORTS TO BERGAMO

1. From Milan Malpensa (MPX)

BY TRAIN

Go to *Malpensa airport railways station* and get:

1. *Malpensa Express* to Milan Centrale station (45 min): ticket € 10
2. Regional Train to Bergamo Station (50 min): ticket about € 5

BY BUS

Service operated by *OrioShuttle* (tel. +39 035 319366) to Bergamo Airport (15 min to city center)

Origin: Malpensa Terminals T2-T1

Time and frequency Mon-Fri: 09:15 – 11:00 – 12:45 – 14:30 – 18:00 – 19:00 – 21:00

Time and frequency Sat-Sun: 09:00 – 14:45 – 19:40

Please check at http://www.orioshuttle.com/eng/pdf/OS_03_ENG.pdf for the updated schedule

One way full fare: Euro 18.00

Round Trip: Euro 30.00

Tickets directly on the bus or at Orio-shuttle Ticket Office at arrivals

BY TAXI

Taxi price about 180 euros (travel time 65-75 minutes). No tips to the drivers.

2. From Milan Linate (LIN)

BY TRAIN AND BUS

1. Bus Service operated by *Air Bus Linate* with destination Milan Centrale Train Station: ticket € 5 (round trip € 9). Tickets can be bought on board. Travel Time: 25 minutes. Schedule From Linate Airport: Every 30 minutes from 6:30 until 23:30.
2. *Regional Train* to Bergamo Train Station: ticket about € 5 (50 minutes).

BY TAXI

Taxi price about 100 euros (travel time 40-45 minutes). No tips to the drivers.

Other info about regional trains Milan – Bergamo

Tickets can be bought online at <http://www.trenitalia.com> (with English pages)

Schedule From Milano Centrale: Every 1 hour from 6:10 until 22:10

Travel Time: 50 minutes

CURRENCY

The currency used in Italy is the Euro (€). Currently € 1 is about \$US 1.32. Most ATMs accept international cards for cash withdrawal.

TIPPING

The general rule is “no tip”. No tips required in hotels, restaurants, bars, pubs and taxi. Restaurants charge a per person fee of about € 2.00-3.00 for the service.

CELLULAR PHONES

Mobile phone networks in Italy use different systems including 2G (GPRS/GSM), 3G (HSDPA/UMTS) and 4G. If your phone works in USA, Japan, Korea, Europe, and Southeast Asia it should work in Italy. Operators provide data service but beware of the high cost of data when roaming!!

CONTACTS

Conference secretariat: +39 346 9708773 or +39 334 6171167

Bergamo Tourist Office: +39 035 210 204 or +39 035 242 226

Carabinieri: 112

Emergency Police Help Number: 113

Fire Department: 115

A.C.I. (Italian Automobile Club) road assistance: 116

Medical Emergencies: 118

ELECTRICITY

Electricity in Italy is 220-230 volts. The Italian earthed plug/socket standard, includes two models rated at 10 A and 16 A that differ in contact diameter and spacing. Both are symmetrical, allowing the live and neutral contacts to be inserted in either direction (see the picture below). Some hotels provide an adaptor, but please bring your own with you if you can. Also plugs CEE 7/16 type are largely used.



16 A (left one) 10 A (right one)



CEE 7/16 Europlug

INTERNET ACCESS

Wireless access is available for ATRS participants in all the conference areas at the University of Bergamo in via Salvecchio. Notice that no Wi-fi network is available at the Seminario Vescovile (i.e., during the Opening Welcome Addresses and Plenary Sessions).

VISITING BERGAMO

Bergamo is a fascinating, historic city with two distinct centres.

Città alta

The *Città Alta* (upper town), surrounded by Venetian walls built in the 17th century, is the historic centre of Bergamo with buildings that date back to medieval times. It has many shops, bars and restaurants that make it comfortable and welcoming for visitors. At the heart of the *Città Alta* is the *Piazza Vecchia*, which was remodelled during the Renaissance and has been hailed by architects and writers as the most beautiful square in Italy. It is surrounded by old palaces and has a 12th century bell tower that still strikes 100 times at 10pm each night to mark an ancient curfew.

You can walk through the archways under *Palazzo della Ragione* to *Piazza Duomo* where you will see the *Duomo*, the *Basilica di Santa Maria Maggiore*, the *Colleoni Chapel* and the *Battistero*, all of them architectural gems.

Streets of shops and restaurants lead off *Piazza Vecchia* to other squares with fountains, beautiful buildings, old churches and museums.

In Largo Colle Aperto you can taste one of the best ice creams in Bergamo at *La Marianna*.

Città bassa

The elegant *Città Bassa* (lower town) grew up on the plain below and still has some buildings left that date back to the 15th century.

But more imposing and elaborate architecture was added in the 19th and early 20th centuries and it is now a vibrant city with a wealth of shops, bars and restaurants and a good choice of hotels. There are also palaces, churches, art galleries and museums (the *Carrara Academy* houses a collection of Renaissance masters) worth visiting as well as a theatre and other venues providing concerts and entertainment.

The *Sentierone* ("large foot path"), via XX Settembre, viale Vittorio Emanuele II and viale Papa Giovanni XXIII are the main streets for shopping, bars, restaurants and walking. In viale Papa Giovanni XXIII, 60 at *GROM* you can taste another one of the best ice creams in Bergamo.

→ Further information at <http://www.turismo.bergamo.it>

SURROUNDING AREA

MILAN (50 minutes away from Bergamo by train): Milan is the second-largest city in Italy and the capital of Lombardy. Visit the *Duomo di Milano*, one of the largest cathedrals in the world containing 3400 statues. We suggest also to visit *The Last Supper* (in Italian L'Ultima Cena or Cenacolo), a 15th century mural painting in Milan created by Leonardo da Vinci for his patron Duke Ludovico Sforza (it is better to book +39 0292 800 360). Near Piazza del Duomo, through galleria Vittorio Emanuele, you can reach Piazza della Scala, with the famous Opera House (*Teatro alla Scala*). Milan is the world capital for fashion: via della Spiga has the most expensive shops of famous trademarks. Other shops are in via Montenapoleone and Corso Buenos Aires. A very nice department store is *La Rinascente*, in Piazza del Duomo.

→ Further information at <http://www.turismo.milano.it/>

VERONA (1 hour and 50 minutes away from Bergamo by train with one stop): Verona is a fascinating, historic city popular for the home of Juliet, the famous Shakespeare's tragic heroine. One of the city's most famous monuments is the enormous *Arena*, a Roman amphitheatre from the first century A.D., located in *Piazza Brà*. Among many other attractions, there is, on the site of the ancient Roman forum, *Piazza delle Erbe*, home to a local market and surrounded by buildings and towers dating from the 12th -17th centuries.

→ Further information at <http://www.tourism.verona.it>

VENEZIA (3 hours away from Bergamo by train with one stop): Venice is considered one of the most sought after, beautiful and unique cultural destinations in the world. It is sited on a group of 118 small islands separated by canals and linked by bridges. Among many attractions, we mention the *Grand Canal*, the *Basilica di San Marco*, the *Rialto Bridge* and the *Doge's Palace*.

→ Further information at <http://www.turismovenetia.it/>

LAKE OF COMO (1 hour and 30 minutes away from Bergamo by train with one stop): Lake Como (Lago di Como) is one of the famous Italian Lakes destinations, not far from Bergamo in the north of Italy. Lake Como is long (50km), slender and extremely deep. The southern end forks into two long 'legs', with the picturesque town of *Bellagio* situated on the promontory between them. Como is on Italy's main railway network, and trains run from Milan to Como frequently, taking around 40 minutes.

→ Further information at <http://www.turismo.como.it/en/>

Another possibility is to rent a car at the Orio al Serio International Airport or at one of the many rental car offices in the city centre (ask to your hotel desk).

ITALIAN SHOPPING EXPERIENCE

- Bergamo has one of the best European Shopping Centers: *Orio Center*, which is located in front of the Caravaggio International Airport (on the other side of the motorway). It has more than 200 shops of the best and well-known trademarks.
- A nice Italian shopping experience in the countryside is the *Franciacorta Outlet Village*, a large shopping mall with outdoor shops easily accessible by car (at about 30 minutes driving) from Bergamo. (If you have a GPS, your final destination is Piazza Cascina Moie 1/2, Rodengo Saiano (Brescia).

PIZZA SUGGESTIONS

- in Città Alta:
 - o Ristorante *da Mimmo*, via Colleoni 17 (035 218535)
 - o Ristorante *da Franco*, via Colleoni 8 (035 238565)
- In Città bassa:
 - o La Caprese, via Piccinini 2 (035 236434)
 - o La Bruschetta, via Guglielmo d'Alzano 4 (035 221265)

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Houston Airport System



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- Istanbul Sabiha Gockcen International Airport
- Copenhagen International Airport
- Boeing
- Korea Airports Corporation
- Kazan international airport, Russia
- German Aerospace Center
- Airbus

ATRS 2014

- Will be held in **KEDGE Business School (BEM – Bordeaux Management School)**, Bordeaux from **July 17 to 20, 2014**
- **KEDGE (BEM)** is located adjacent to the **Bordeaux airport**. **Air France** provide non-stop services to /from Paris within one hour,
- **High speed train (TGV)** connects Paris to Bordeaux in 3 hours.

