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SOAR

Symposium on
Aviation Research

6th Symposium on Aviation Research University of Bari, March 20 & 21, 2025

Information on venue & accommodation can be found at:

<https://soarsymposium.github.io/soarSymposium/>

PROGRAM

Full papers: **Presentation up to 30 minutes**, **discussant 5 minutes**, group discussion 5 minutes

Early-papers: **Presentation up to 15 minutes**, group discussion 5 minutes

Early paper presentation up to 15 minutes, group discussion minutes		
19 th March		
18:00-20:00	Welcome Reception	
20 th March		
8:45-9:00	Opening Session: Angela Stefania Bergantino & Gianmaria Martini	
09:00-9:45 Keynote #1 Chair: Nicole Adler	Andreas Schafer	Towards net-zero carbon aviation
Coffee Break		
10:00-12:00 Full Paper Session #1 Chair: Antonio Antunes	Christian Bontemps , Angela Bergantino	Merger between ITA & Lufthansa
	Discussant: Flavio Porta	
	Valeria Bernardo , Xavier Fageda	Fleet Renewal or Supply Growth? The Impact of New Aircraft On Carbon Emissions
	Discussant: Gerben de Jong	
	Li Zou , Martin Dresner, Xiang Wan	Capacity Disruption & Airline Performance: Assessing the Impacts of Boeing 737 Max Grounding on the U.S. Airline Industry
	Discussant: Sonia Huderek-Glapska	
Lunch		

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13:00-15:00 Full Paper Session #2 Chair: Angela Bergantino	Qian Liu , Paul Rochet, Chantal Roucolle	Who is My Main Competitor? Measuring Airline Pairwise Competitive Intensity Based on Route Supply Strategies
	<i>Discussant:</i> Gianmaria Martini	
	Adit Kivel , Nicole Adler, David Zucker	Measurement Error Adjusted Stochastic Frontier Analysis: Estimating Efficiency of the European Air Navigation Service Providers
	<i>Discussant:</i> Christian Bontemps	
	Frank Fichert , Thi Thuy An Vo	Can more flexibility in Air Navigation Service Provision capacity provision really reduce delays? – A multi-stakeholder analysis
<i>Discussant:</i> Estelle Malavolti		
<i>Coffee Break</i>		
15:15-16:30 Early-paper Parallel Sessions #3	Chair Session 3a: Adit Kivel	Chair Session 3b: Isabel Pham
	Yifan Xu ; A Stochastic Programming Approach for Gate Assignment Problem under Realistic Constraints	Gianmaria Martini ; The effects of airlines’ cooperation on price & non-price competition: An empirical application to the North Atlantic markets
	Lorenzo Zanchi ; An Integrated Optimization-based Decision Support System for the Airport Check-in Planning	Estelle Malavolti ; The Environmental Impact of Airline Delays: A Focus on Arrival Delays & CO2 Emissions
	Gideon Gottschalg ; A two-stage optimization model for an eVTOL airport shuttle service	Nicolò Avogadro ; Evolution of Hub-and-Spoke Networks: A Passenger-Centric Characterization
	Anne Lange ; Predicting Air Cargo Turnaround Times	Sonia Huderek-Glapska ; Determinants & dimensions of the interdependence between air transport & the socio-economic environment in the maturing markets of Central & Eastern Europe
<i>Break</i>		
16:45-18:00 Early-paper Parallel Sessions #4	Chair Session 4a: Branko Bubalo	Chair Session 4b: Sai Bravo
	Gerben De Jong ; Do Airport Emission Charges Work Or Don’t They?	Isabel Pham ; Air cargo competition & the implications for trade
	Doris Antczak ; Determinants of Gap Between Environmental Attitudes & Consumer Behavior in Short-Haul Air Transport	Yuting Chen ; An assessment of context factors influencing airport response & resilience in pre & post COVID-19: Evidence from Europe
	Luca Gallarati ; The impact of conflict on African air traffic	Ane Ripoll-Zarraga ; U.S. Airlines Efficiency: The Benefit-of-the-Doubt DEA Framework with Common Weights
	Andrii Pohudin ; The current state & future development of Ukraine’s air transport infrastructure	Andrea Gualini ; Welfare Effects of Electric Aircraft Using an Econometric Structural Model
<i>Dinner reception in city</i>		

21st March

8:45-10:00 Full Paper Session #5 Chair: Anne Lange	Vikrant Vaze , Ahmet Esat Hızır, Cynthia Barnhart	Large-Scale Integrated Airline Recovery using Mixed-Integer Optimization & Supervised Learning
	<i>Discussant:</i> Yifan Xu	
	Benny Mantin , Chiara Morlotti	To jump or not to jump? This is the queue
	<i>Discussant:</i> Antonio Antunes	
Coffee Break		
10:15-11:30 Full Paper Session #6 Chair: Gianmaria Martini	Nicole Adler , Eran Hanany, Stef Proost	Auctioning Congested Service Networks with Application to Air Traffic Control Markets
	<i>Discussant:</i> Stefano Galavotti	
	Alberto Santini , Vikrant Vaze	Integrated Regional Airline Scheduling Via Column Generation
	<i>Discussant:</i> Benny Mantin	
Break		
11:45-12:30 Keynote #2 Chair: Christian Bontemps	Myongjin Kim	Technology & Sustainability in Aviation: Navigating Changing Markets & Policies
Lunch		

13:30-14:45 Full Paper Parallel Session #7	Chair Session 7a: Sonia Huderek-Glapska	Chair Session 7b: Andrea Gualini
	Branko Bubalo: Electro-mobility in Air Transportation: A Comprehensive Simulation Analysis of Aircraft, Drones & Ground Handling Services in Hamburg	Marco Alderighi , Alberto Gaggero, Claudio Piga : Demand-shock characteristics & pricing behavior: A natural experiment from UEFA Euro 2016
	<i>Discussant:</i> Anne Lange	<i>Discussant:</i> Mario Intini
	Antonio Antunes , Alberto Correa Blaite, João Fonseca Bigotte: Vulnerability & resilience of the domestic air transport network of Brazil under the COVID-19 pandemic	Paula Navarro , Anantha Divakaruni: Capacity Disruptions & Pricing: Evidence from US Airlines
	<i>Discussant:</i> Gianmarco Andreana	<i>Discussant:</i> Chantal Roucolle
Coffee Break		



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15:00-17:00 Full Paper Session #8 Chair: Gideon Gottschalg	Mattia Borsati , Angela Stefania Bergantino, Xavier Fageda, Mario Intini	Too big to stay? The downsizing of Italy's flag carrier & its consequences on airline pricing
	Discussant: Frank Fichert	
	Xavier Fageda , Katrin Oesingmann	Is there carbon leakage in the European emissions trading system? Evidence from passenger shifts in the aviation market.
	Discussant: Angela Stefania Bergantino	
	Sai Bravo , Shangrong Chen, Estelle Malavolti	Balancing Air & Rail: Optimal Transportation Mix & the Role of Coopetition in Successive Markets
	Discussant: Davide Scotti	
17:45-18:00	Closing Session: <i>future directions in aviation research</i> António Antunes, Christian Bontemps, Gianmaria Martini, Nicole Adler & all participants	