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# SOAR

Symposium on  
Aviation Research

## 6<sup>th</sup> 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

19 <sup>th</sup> March		
18:00-20:00	Welcome Reception	
Aula Leogrande, Centro Polifunzionale Studenti, Piazza Cesare Battisti, 1		
20 <sup>th</sup> March		
8:45-9:00	Opening Session: Angela Stefania Bergantino & Gianmaria Martini	
09:00-9:45	Andreas Schafer	Towards net-zero carbon aviation
Keynote #1 Chair: Nicole Adler		
Aula Magna Cossu, Via Scipione Crisanzio, 1		
Coffee Break		
10:00-12:00 Full Paper Session #1 Chair: Davide Scotti	Christian Bontemps, Angela Bergantino	Merger between ITA & Lufthansa
	Discussant: Flavio Porta	
	Qian Liu, Paul Rochet, Chantal Roucolle	Who is My Main Competitor? Measuring Airline Pairwise Competitive Intensity Based on Route Supply Strategies
	Discussant: Gianmaria Martini	
Biblioteca dell'Ateneo - Sala Conferenze, Via Scipione Crisanzio, 1.	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	<b>Adit Kivel</b> , Nicole Adler, David Zucker	Measurement Error Adjusted Stochastic Frontier Analysis: Estimating Efficiency of the European Air Navigation Service Providers
	Discussant: <b>Christian Bontemps</b>	
Biblioteca dell'Ateneo - Sala Conferenze, Via Scipione Crisanzio, 1	<b>Frank Fichert</b> , Thi Thuy An Vo	Can more flexibility in Air Navigation Service Provision capacity provision really reduce delays? - A multi-stakeholder analysis
	Discussant: <b>Estelle Malavolti</b>	
Coffee Break		
15:15-16:30 Early-paper Parallel Sessions #3	Biblioteca dell'Ateneo - Sala Conferenze, Via Scipione Crisanzio, 1	Aula "Don Tonino Bello", Palazzo Chiaia (Piano Terra, FOR.PSI.COM.), Via Crisanzio, 42
	Chair Session 3a: Sebastian Birolini	Chair Session 3b: Isabel Pham
	<b>Yifan Xu</b> ; A Stochastic Programming Approach for Gate Assignment Problem under Realistic Constraints	<b>Gianmaria Martini</b> ; The effects of airlines' cooperation on price & non-price competition: An empirical application to the North Atlantic markets
	<b>Lorenzo Zanchi</b> ; An Integrated Optimization-based Decision Support System for the Airport Check-in Planning	<b>Estelle Malavolti</b> ; The Environmental Impact of Airline Delays: A Focus on Arrival Delays & CO2 Emissions
	<b>Gideon Gottschalg</b> ; A two-stage optimization model for an eVTOL airport shuttle service	<b>Nicolò Avogadro</b> ; Evolution of Hub-and-Spoke Networks: A Passenger-Centric Characterization
	<b>Anne Lange</b> ; Predicting Air Cargo Turnaround Times	<b>Sonia Huderek-Glapska</b> ; Determinants & dimensions of the interdependence between air transport & the socio-economic environment in the maturing markets of Central & Eastern Europe
Break		
16:45-18:00 Early-paper Parallel Sessions #4	Biblioteca dell'Ateneo - Sala Conferenze, Via Scipione Crisanzio, 1	Aula "Don Tonino Bello", Palazzo Chiaia (Piano Terra, FOR.PSI.COM.), Via Crisanzio, 42
	Chair Session 4a: Branko Bubalo	Chair Session 4b: Sai Bravo
	<b>Gerben De Jong</b> ; Do Airport Emission Charges Work Or Don't They?	<b>Isabel Pham</b> ; Air cargo competition & the implications for trade
	<b>Doris Antczak</b> ; Determinants of Gap Between Environmental Attitudes & Consumer Behavior in Short-Haul Air Transport	<b>Yuting Chen</b> ; An assessment of context factors influencing airport response & resilience in pre & post COVID-19: Evidence from Europe
	<b>Luca Gallarati</b> ; The impact of conflict on African air traffic	<b>Ane Ripoll-Zarraga</b> ; U.S. Airlines Efficiency: The Benefit-of-the-Doubt DEA Framework with Common Weights
	<b>Andrii Pohudin</b> ; The current state & future development of Ukraine's air transport infrastructure	<b>Andrea Gualini</b> ; Welfare Effects of Electric Aircraft Using an Econometric Structural Model
Dinner reception in city		

## 21<sup>st</sup> March

8:45-10:00 Full Paper Session #5 Chair: Anne Lange	<b>Vikrant Vaze</b> , Ahmet Esat Hızır, Cynthia Barnhart	Large-Scale Integrated Airline Recovery using Mixed-Integer Optimization & Supervised Learning
	Discussant: <b>Yifan Xu</b>	
	<b>Benny Mantin</b> , Chiara Morlotti	To jump or not to jump? This is the queue
	Discussant: <b>Sebastian Birolini</b>	
Biblioteca dell'Ateneo - Sala Conferenze, Via Scipione Crisanzio, 1		
Coffee Break		
10:15-11:30 Full Paper Session #6 Chair: Gianmaria Martini	<b>Nicole Adler</b> , Eran Hanany, Stef Proost	Auctioning Congested Service Networks with Application to Air Traffic Control Markets
	Discussant: <b>Stefano Galavotti</b>	
	<b>Alberto Santini</b> , Vikrant Vaze	Integrated Regional Airline Scheduling Via Column Generation
	Discussant: <b>Benny Mantin</b>	
Biblioteca dell'Ateneo - Sala Conferenze, Via Scipione Crisanzio, 1		
Break		
11:45-12:30 Keynote #2 Chair: Christian Bontemps	<b>Myongjin Kim</b>	Technology & Sustainability in Aviation: Navigating Changing Markets & Policies
Biblioteca dell'Ateneo - Sala Conferenze, Via Scipione Crisanzio, 1		
Lunch		

13:30-14:45 Full Paper Parallel Session #7	Biblioteca dell'Ateneo - Sala Conferenze, Via Scipione Crisanzio, 1	Aula "Don Tonino Bello", Palazzo Chiaia (Piano Terra, FOR.PSI.COM.), Via Crisanzio, 42
	Chair Session 7a: Sonia Huderek- Glapska	Chair Session 7b: Andrea Gualini
	<b>Branko Bubalo</b> : Electro-mobility in Air Transportation: A Comprehensive Simulation Analysis of Aircraft, Drones & Ground Handling Services in Hamburg	<b>Marco Alderighi</b> , Alberto Gaggero, Claudio Piga : Demand-shock characteristics & pricing behavior: A natural experiment from UEFA Euro 2016
	Discussant: <b>Anne Lange</b>	Discussant: <b>Mario Intini</b>
	<b>Antonio Antunes</b> , Alberto Correa Blaite, João Fonseca Bigotte: Vulnerability & resilience of the domestic air transport network of Brazil under the COVID-19 pandemic	<b>Paula Navarro</b> , Anantha Divakaruni: Capacity Disruptions & Pricing: Evidence from US Airlines



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	Discussant: <b>Gianmarco Andreana</b>	Discussant: <b>Chantal Roucolle</b>
Coffee Break		

15:00-17:00 Full Paper Session #8 Chair: Gideon Gottschalg	<b>Mattia Borsati</b> , Angela Stefania Bergantino, Xavier Fageda, Mario Intini	Too big to stay? The downsizing of Italy's flag carrier & its consequences on airline pricing
	Discussant: <b>Frank Fichert</b>	
	<b>Xavier Fageda</b> , Katrin Oesingmann	Is there carbon leakage in the European emissions trading system? Evidence from passenger shifts in the aviation market.
	Discussant: <b>Angela Stefania Bergantino</b>	
Aula "Don Tonino Bello", Palazzo Chiaia (Piano Terra, FOR.PSI.COM.), Via Crisanzio, 42	<b>Sai Bravo</b> , Shangrong Chen, Estelle Malavolti	Balancing Air & Rail: Optimal Transportation Mix & the Role of Coopetition in Successive Markets
	Discussant: <b>Davide Scotti</b>	
17:45-18:00		
Biblioteca dell'Ateneo - Sala Conferenze, Via Scipione Crisanzio, 1.	Closing Session: <i>future directions in aviation research</i> António Antunes, Christian Bontemps, Gianmaria Martini, Nicole Adler & all participants	