INAIR 2015 Conference Provisional Program
12-13 November 2015, Holiday Inn Amsterdam Arena Towers, The Netherlands

DAY 1 : Thursday, 12th November

8:00 - 9:00  Registration & Coffee

9:00 - 9:20  Welcome speech: Geert Boosten, Aviation Academy, AUAS & Antonín Kazda, University of Žilina

9:20 - 10:40  Keynote Session I. (Moderator: Geert Boosten)

Colin Meckiff, EUROCONTROL, France
“Research challenges in air traffic management”

Henk Hesselink, NLR, The Netherlands
“Airport Decision Support: capacity forecast”

Antonín Kazda, University of Žilina
“Airport Typology from Low Cost Airlines Ops Perspective”

John Stoop, TU DELFT, The Netherlands
“Safety, a system integrator”

10:40 - 11:00  Coffee & Networking break

11:00 - 12:40  Paper Session I. - Innovative Solutions in Aviation Industry I (Chair: Miguel Mujica)

Modelling flexible solutions at passenger terminals: an application to Terminal 2 of Lisbon Airport, Liliana Magalhães, Vasco Reis and Rosario Macario; Instituto Superior Técnico, Universidade de Lisboa, Portugal

An Optimization Approach for Airport Ground Operations with A Shortest Path Algorithm, Orhan Eroglu, Zafer Altug Sayar and Guray Yilmaz TUBITAK BILGEM, U of Turkey

Mach Number Selection for Cruise Phase using the Ant Colony Optimization Algorithm With RTA Constrains, Alejandro Murrieta-Mendoza, Antoine Hamy and Ruxandra Mihaela Botez; University of Quebec / Ecole de Technologie Superieure/LARCASE Canada

Aircraft Lateral Flight Optimization Using Artificial Bees Colony, Alejandro Murrieta-Mendoza, Audric Bunel and Ruxandra Mihaela Botez; University of Quebec / Ecole de Technologie Superieure/LARCASE Canada

Innovative Baggage Delivery for Sustainable Air Transport, Pavel Loskot* Peter Ball**; *Swansea University, United Kingdom of Great Britain and Northern Ireland **Zafire Aviation Software Limited, United Kingdom of Great Britain and Northern Ireland
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12:40 - 13:40 Lunch

13:40 - 14:40 Keynote Session II. (Moderator: Benedikt Badanik)

Olivier Poulard, SITA, Switzerland
“Operational and Business Intelligence for the Air Transport Industry”

Daniel Guimaráns, NICTA, Australia
“Simulation and Optimization: We are here to help”

John Wensveen, Purdue University, USA
“iPOP: An Innovative Education & Training Model”

14:40 - 15:00 Coffee & Networking break

15:00 - 15:40 Signing the Memorandum of Understanding of the ATAERA Aviation University Network

15:40 - 17:00 Paper Session II. – Innovative Solutions in Aviation Industry II (Chair: Miguel Mujica Mota)

Synchronizing transportation of people with reduced mobility through airport terminals, Rene van Twist, Marjan Van Den Akker and Han Hoogeveen; Utrecht University, Netherlands

A new reactive algorithm for gate assignment problem in airport ground operations management, Mehmet Mutlu Yenisey*, Tuncay Özcan, Betül Yağmahan** and Abdullah Aktel***; *Istanbul University, Turkey **Uludag University, Turkey ***Turkish Institute of Management Sciences, Turkey

Revisiting Mexican TMA Route Structure, Catya Zuñiga*Daniel Delahaye**, *Universidad Aeronautica de Queretaro, Mexico **Ecole Nationale de l’Aviation Civile, France

ATS capacity and efficiency improvements by HungaroControl air navigation service provider, Vilmos Somosi; HungaroControl Hungarian Air Navigation Service Provider, Hungary

Identification of Operative Problems using a model-based approach for Lelystad Airport, Miguel Mujica Mota, Aviation Academy, AUAS

17:00 - 19:00 Cultural program

19:00 - 21:00 Dinner
Day 2: Friday, 13th November

9:00 - 10:00  Keynote Session III. (Moderator: Antonín Kazda/Benedikt Badanik)

Gert Meijer, Aviation Academy, AUAS
“The Future of Hub Systems”

Thomas Hoff Andersson, Copenhagen Airports
“CPH: The efficient airport”

Miroslav Bartoš, European CANSO CEO Committee Chairman, Slovakia
“ANS Provision Then, Now and Challenges Ahead”

10:00 - 10:30  Book presentation: Applied Simulation and Optimization in Logistics, Industrial and Aeronautical Practice; Miguel Mujica Mota, Idalia Flores, Daniel Guimarans, Geert Boosten

10:30 - 11:00  Coffee & Networking break

11:00 - 12:40  ROOM I. Paper Session III. - Airports (Chair: Wenjing Zhao)

Trends in airport surface access in the London multi-airport system, Richard Moxon; Cranfield University, UK

Benchmarking of airports from Central and Eastern Europe, Sorin Eugen Zaharia; University POLITEHNICA of Bucharest, Romania

Governmental Airports in Kazakhstan, Peter Mayerhoffer

The Analysis of Air Transport in Poland, Jerzy Merkisz, Jacek Pielecha; Jaroslaw Markowski; Marta Galant, Remigiusz Jasiński, Dawid Gallas; Institute of Internal Combustion Engines and Transport, Poznan University of Technology, Poland

11:00 - 12:40  ROOM II. Paper Session IV - Technical Innovation (Chair: Daniel Guimarans)

Development and Validation of an ATC Research Simulator, Tomislav Radisic, Doris Novak and Biljana; Juricic Faculty of Transport and Traffic Sciences, University of Zagreb, Croatia

Using Human-Machine Interaction Frequency as a Proxy Measure of Subjective Air Traffic Complexity, Bruno Antulov-Fantulin*, Matthieu Rummens** and Tomislav Radisic; * Faculty of Transport and Traffic Sciences, University of Zagreb, Croatia **French Air Force Academy, France
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*Cessna Citation X Pitch Rate Control Design using Guardian Maps*, Georges Ghazi, Kevin Rezk and Ruxandra Botez; École de Technologie Supérieure, Canada

*Identification of a Cessna Citation X Aero-Propulsive Model in Climb Regime from Flight Tests*, Georges Ghazi, Ruxandra Botez and Magdalena Tudor; École de Technologie Supérieure, Canada

*The Effects of Demographic Factors on CRM perception on Airline Pilots: Turkey Example*, Mehmet Onur Balkan*, Semih Soran** and Ahmet Emin Serin*; *Inonu University, Turkey **Ozyegin University, Turkey

**12:40 - 13:40**   Lunch

**13:40 - 14:40**   Paper Session V. - Innovation in Education (Chair: Catya Zuniga)

*The Future Aerospace Workforce and Higher Education Institutions*, William Muldoon* and Robert Walton**; *Embry-Riddle Aeronautical University - Worldwide, USA **Embry-Riddle Aeronautical University - Worldwide, Germany

*Safety and Efficiency AB Initio Flight Training: Air Traffic – Control or Information*, Indre Sveistryte; Baltic Aviation Academy, Lithuania

*Present and Future Education and Training Needs for Aviation Engineers and Researchers in Europe*, Karol Gótz* and Antonín Kazda**; *Winsland, Slovakia **University of Zilina, Slovakia

*Is economy of scale in Air Navigation Service provision really always the best choice?*, Andrej Grebenšek and Tadej Kosel; University of Ljubljana, Faculty of Mechanical Engineering, Slovenia

**14:40 - 15:00**   Closing words