



5th SESAR Innovation Days

Inspiring long-term research
in the field of Air Traffic Management

1-3 December 2015

hosted by Università di Bologna,
Bologna, Italy

- ➔ Explore.
- ➔ Share.
- ➔ Innovate.



www.sesarinnovationdays.eu

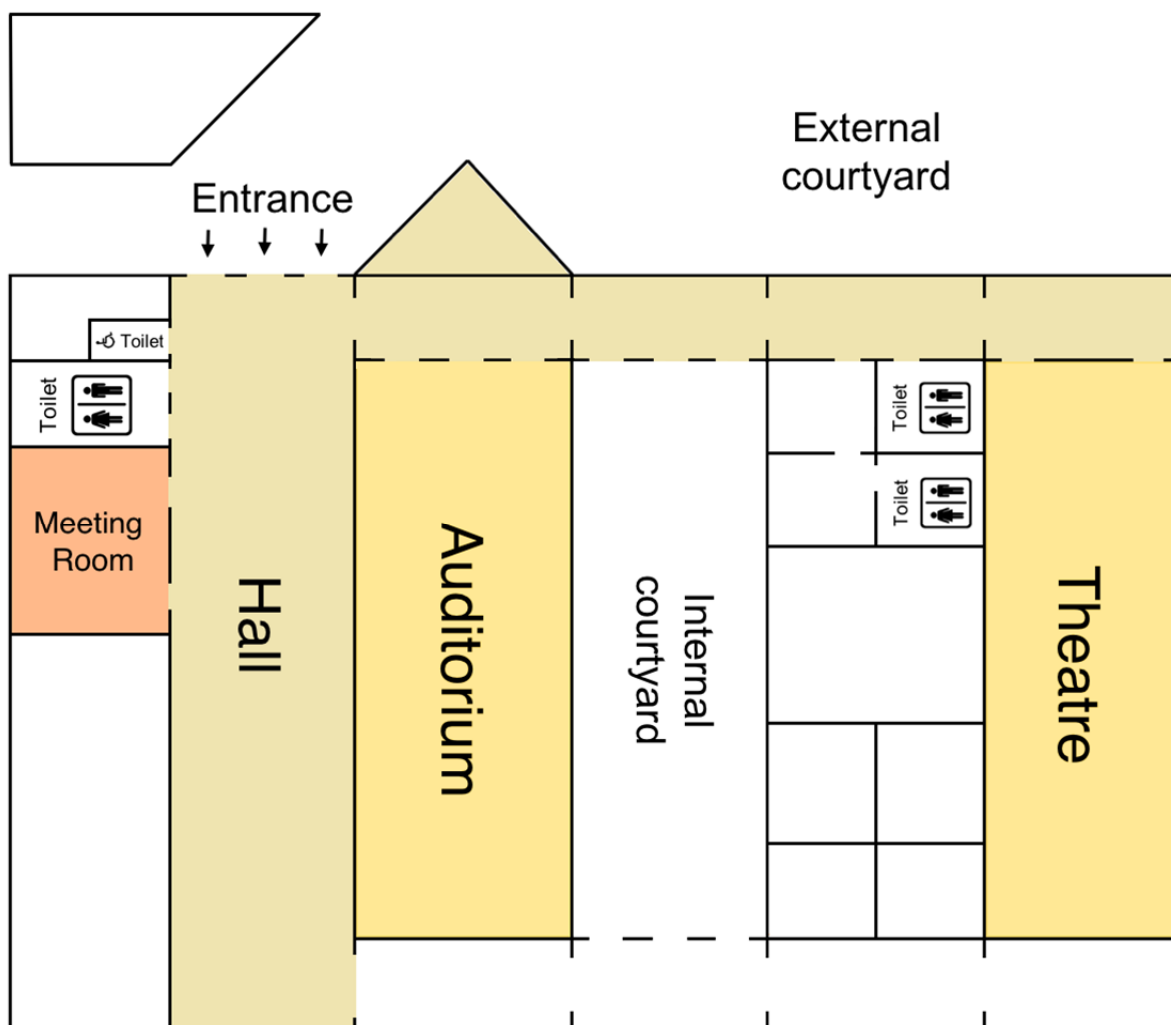


@SESAR_JU
#SIDS2015



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Draft Programme

Monday, 30 November 2015

14.00-18.00

Workshop: "Resilience 2050" organized by Innaxis and FP7 project "Resilience 2050"

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Tuesday, 1 December 2015

9:00 – 10:30	REGISTRATION, COFFEE	
	Opening Session <i>Session Chair: Colin Meckiff, EUROCONTROL</i>	
	Welcome and Opening <i>Antonino Rotolo, University of Bologna</i> <i>Colin Meckiff, EUROCONTROL</i> <i>Dirk Schaefer, EUROCONTROL</i>	
10:30 – 11:00		
11:00 – 11:45	Keynote by Xavier Fron, EUROCONTROL / SESAR Scientific Committee	
11:45 – 12:15	The European ATM Master Plan <i>Alain Siebert, SJU</i>	
12:15 – 12:30	Latest news from WP-E Research Network ComplexWorld Latest news from WP-E Research Network HALA!	
12:30 – 14:00	LUNCH	
14:00 – 15:45	Liability and Regulation* <i>Session Chair: Anna Masutti, LS Lexjus Sinacta</i> Design According to Liabilities: ACAS X and the Treatment of ADS-B Position Data <i>Giuseppe Contissa and Hanna Schebesta, EU Institute</i> ACCHANGE: Lessons Learned and Way Forward <i>Eef Delhaye, Transport & Mobility Leuven</i> Towards a Performance Based Regulation for the Integration of Drones in the Civil Aviation System <i>Francis Schubert, skyguide</i>	Human Factors* <i>Session Chair: Billy Josefsson, LFV</i> An Empirical Investigation Into Three Underlying Factors Affecting Automation Acceptance <i>Carl Westin, CHPR</i> The Sixth Sense of an Air Traffic Controller <i>Eva Eggeling, Fraunhofer Austria</i> Skill, Rule and Knowledge - based Behaviour Detection by Means of ATCOs’ Brain Activity <i>Gianluca Borghini and Pietro Aricó, Sapienza University of Rome</i>
15:45 – 16:15	COFFEE	
16:15 – 18:00	Delays* <i>Session Chair: Andrew Cook, University of Westminster</i> Delay Assignment Optimization Strategies at Pre-Tactical and Tactical Levels <i>Luis Delgado, University of Westminster</i> TREE Model: A Tool to Explore Delay Reduction Scenarios in the ECAC Area <i>Carla Ciruelos Pardo, ISDEFE</i>	HMI and Decision Support Tools* <i>Session Chair: Dirk Kuegler, DLR</i> Human-automation Collaboration Strategies <i>Jonas Lundberg, Linköping University</i> Self-Managing Conflict Resolution for Autonomous Taxiing Tugs: An Initial Survey <i>Zarrin Chua, ISAE-Supaero</i>

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	Delays* (ctd) Controller Time and Delay Costs - a Trade-off Analysis <i>Luis Delgado, University of Westminster</i>	HMI and Decision Support Tools* (ctd) Experimental Quantification of Times Needed to Comply With Air Traffic Control Advisories <i>Markus Vogel, TU Dresden</i>
18:00 – 19:30	POSTERS AND EXHIBITS SESSION 1, COCKTAIL	
	* include poster teaser and exhibition announcement session (15 min)	

Wednesday, 2 December 2015

9:00 – 10:45	ASDA Research Tournament <i>Session Chair: Pierre Andribet, EUROCONTROL</i>	
	Match 1 : RPAS Integration into Controlled Airspace <i>Referee: Jacco Hoekstra, TU Delft</i> <i>Martina Ragosta, Deep Blue (Human Factors) and Jose Javier Ramasco, IFISC (Complexity Science) vs. Giuseppe Contissa, EU Institute (Legal) and Alan Groskreutz, CRIDA (Safety)</i>	
	Match 2 : Increasing Trajectory Prediction Accuracy under Bad Weather Conditions <i>Referee: Peter Hecker, TU Braunschweig</i> <i>Norbert Fürstenau, DLR (Sensors & Dynamic Systems) and Guglielmo Lulli, Lancaster University (Network Analytics) vs. Ricardo Herranz, Nommon (Data Science, Complex Systems Theory) and Jaap Heijstek, NLR (Meteo)</i>	
10:45 – 11:00	Artistic Interlude	
11:00– 11:30	COFFEE	
	Economics <i>Session Chair: Lorenzo Castelli, Università degli Studi di Trieste</i> Efficiency vs. Flexibility in ATM: can Pricing Help? <i>Radosav Jovanovic, University of Belgrade</i>	Applied Modelling & Optimization <i>Session Chair: David Perez, Innaxis</i> Improvement of Pushback Time Assignment Algorithm via Stochastic Optimization <i>Ryota Mori, ENRI</i>
11:30 – 13:00	Modulation of En-route Charges to Redistribute Traffic in the European Airspace <i>Lorenzo Castelli, Università degli Studi di Trieste</i> Price-Setting Auctions for Airport Slot Allocation: a Multi-Airport Case Study <i>Ricardo Herranz, Nommon</i>	Pre-Tactical Planning of Runway Utilization Under Uncertainty: Optimization and Validation <i>Norbert Fürstenau, DLR</i> ELSA Air Traffic Simulator: an Empirically grounded Agent Based Model for the SESAR scenario <i>Salvatore Micciche, Università degli Studi di Palermo</i>
13:00 – 14:30	LUNCH	

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Capacity and Airspace Design

Session Chair: Peter Hecker, TU Braunschweig

A Framework of Point Merge-based
Autonomous System for Optimizing Aircraft
Scheduling in busy TMA

Man Liang, ENAC

A Baseline for Terminal Airspace Design
Assessment

Valentin Polishchuk, Linköping University

Analysis of 2NM Separation for Minimal Pair
Arrivals

Alan Groskreutz, CRIDA

3D Sectors Design by Genetic Algorithm
Towards Automated Sectorisation

Marina Sergeeva, ENAC

EMFASE - SecRAM Risk Management Tutorial and Workshop

Workshop Chair: Fabio Massacci, University of
Trento

For registration and more information about
the workshop please consult the dedicated
workshop page on

www.sesarinnovationdays.eu

14:30 – 16:30

16:30 – 17:30

POSTERS AND EXHIBITS SESSION 2, COFFEE

NETWORKING EVENT**

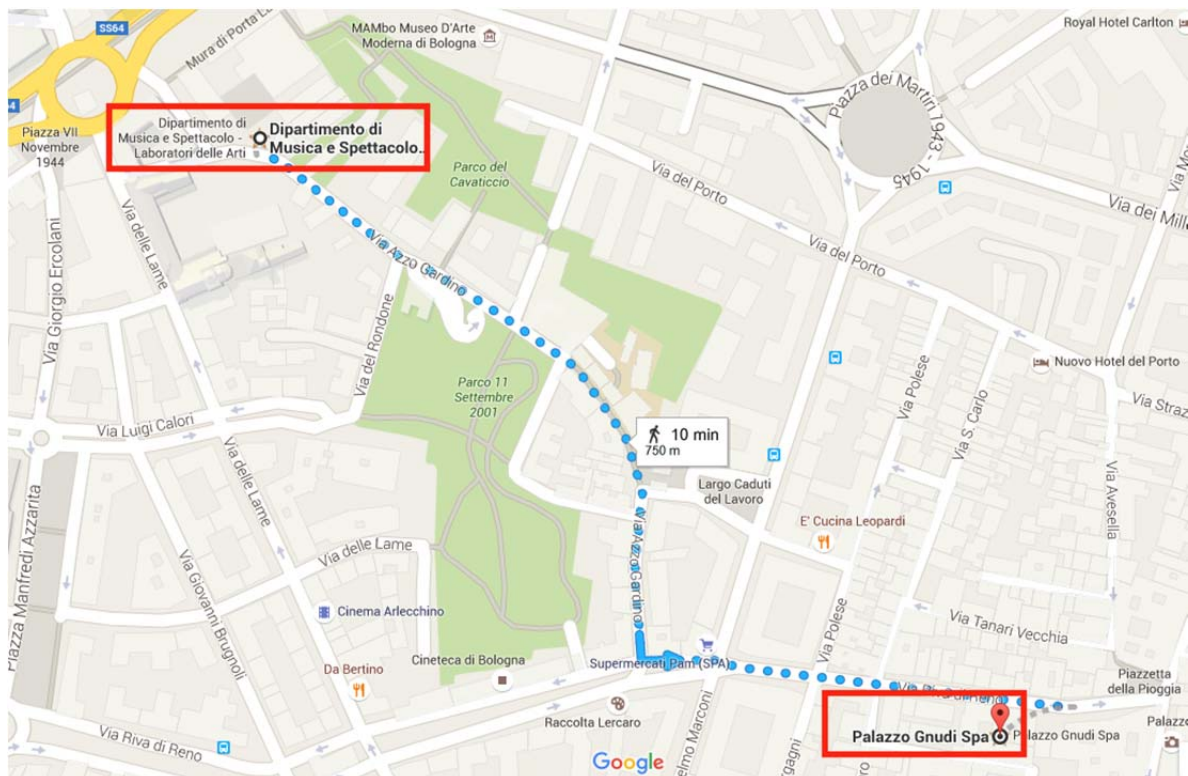
Palazzo Gnudi

Via Riva Reno 77

Bologna

19:00

** Participant contribution: 40 € (to be paid at the conference desk)



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Thursday, 3 December 2015

	<p>Meteo <i>Session Chair: Paul Neering, IFATCA</i></p> <p>Recommendations on trajectory selection in flight planning based on weather uncertainty <i>Jacob Cheung, Met Office</i></p>	<p>Safety and Security <i>Session Chair: Bruno Lamiscarre, ONERA</i></p> <p>Preliminary Experiments on the Relative Comprehensibility of Tabular and Graphical Risk Models <i>Katsiaryna Labunets, University of Trento</i></p>
9:00 – 10:30	<p>Analysis of the Effect of Uncertain Average Winds on Cruise Fuel Load <i>Rafael Vazquez, University of Seville</i></p> <p>Improving the mitigation of wind hazards in ATM operations with Ground-based Wind Doppler LIDARs <i>Ludovic Thobois, LEOSPHERE</i></p>	<p>Real-time Simulations to Evaluate RPAS Contingencies in Shared Airspace <i>Marc Pérez-Batlle, UPC</i></p> <p>A Flight Delay Reporting and Analysis Platform Through Secure Information Sharing <i>Emre Koyuncu, Istanbul Technical University</i></p>
10:30 – 11:00	COFFEE	
	<p>Closing Session <i>Session Chair: David Bowen, SJU</i></p>	
11:00 – 11:30	<p>The future of SESAR Exploratory Research <i>David Bowen, SJU</i></p>	
11:30 – 12:15	<p>Young Scientist Award presented by the SESAR Scientific Committee</p>	
12:15 – 12:30	<p>Latest news from SESAR</p>	
12:30 – 13:00	<p>Closing plenary Report and observations from HALA!, Report and observations from ComplexWorld Close</p>	
13:00 – 16:30	<p>Workshop: “HALA! Tools and resources to face new research challenges on ATM automation: Learn how to use them” (starts with a HALA!-guided tour of the city and includes lunch) <i>Workshop Chair: Rosa Arnaldo, Universidad Politécnica de Madrid</i></p> <p>For registration and more information about the workshop please consult the dedicated workshop page on www.sesarinnovationdays.eu</p>	

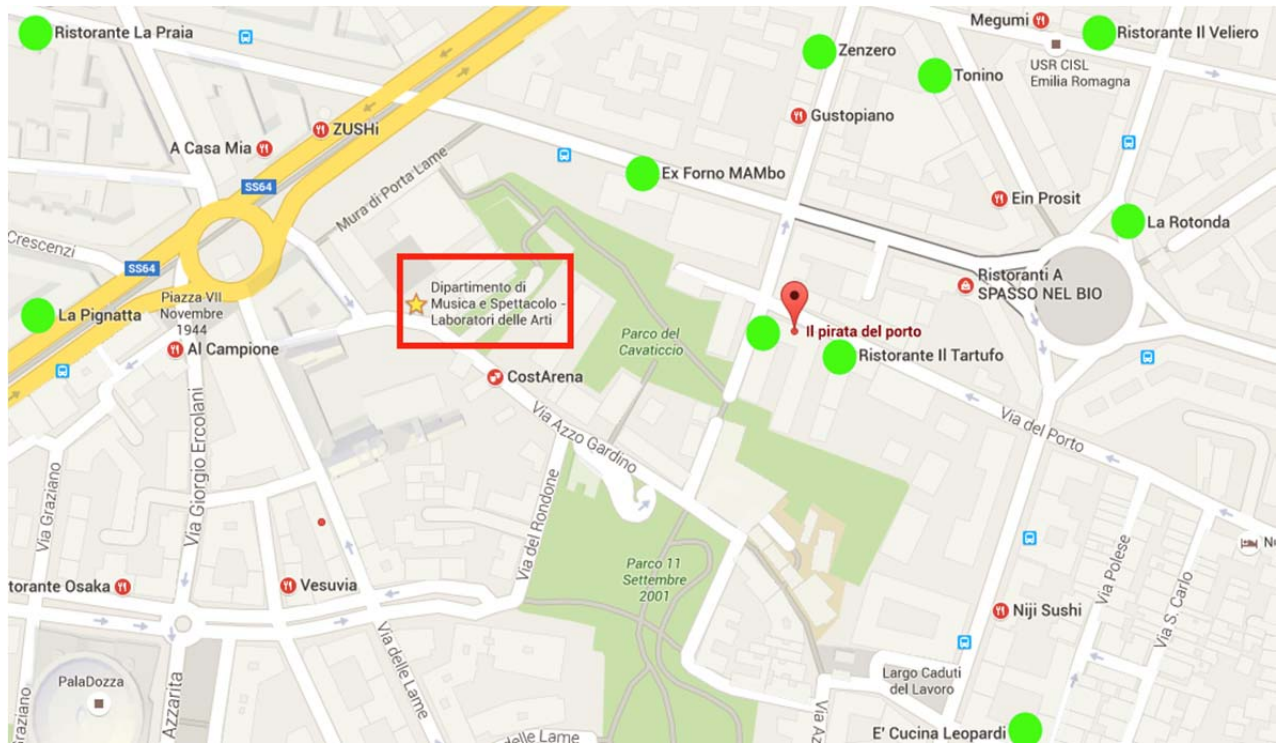
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