



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



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#SIDS2015

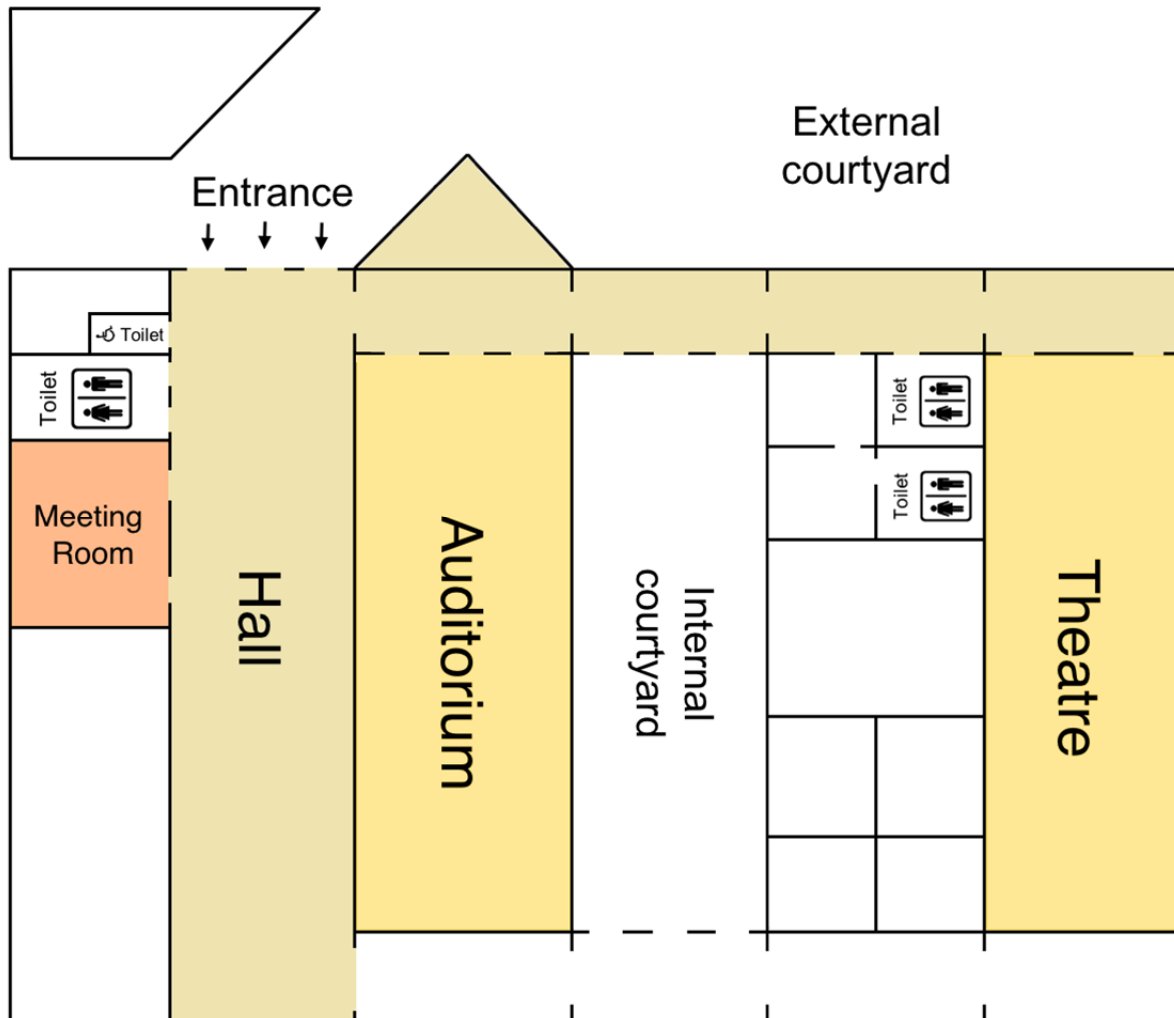


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The SESAR Innovation Days 2015 take place at the Laboratori delle Arti of Università di Bologna. Laboratori delle Arti (<http://www.dar.unibo.it/it/dipartimento/presentazione/sedi/laboratori-delle-arti>) is located in the centre of Bologna at Piazzetta P. P. Pasolini, 5/b, Bologna but google map users are recommended to use via Azzo Gardino 65/a, Bologna (google seems to confuse Piazzetta P. P. Pasolini with via P. P. Pasolini).

Enter the gate and keep right to the laboratory, beach flags should be in place to guide you.



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

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<p style="text-align: center;">Delays* (continued)</p> <p style="text-align: center;">Controller Time and Delay Costs - a Trade-off Analysis <i>Luis Delgado, University of Westminster</i></p>	<p style="text-align: center;">HMI and Decision Support Tools* (continued)</p> <p style="text-align: center;">Experimental Quantification of Times Needed to Comply With Air Traffic Control Advisories <i>Markus Vogel, TU Dresden</i></p>
<p>18:00 – 19:30 POSTERS AND EXHIBITS SESSION 1, COCKTAIL</p>	

* include poster teaser and exhibition announcements (15 min)

Wednesday, 2 December 2015

<p>9:00 – 10:45</p>	<p>ASDA Research Tournament <i>Session Chair: Pierre Andribet, EUROCONTROL</i></p>	
	<p>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></p>	
	<p>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></p>	
<p>10:45 – 11:00</p>	<p>Artistic Interlude: Maestro Pietro Fabris - Violin <i>Collegium Musicum Almae Matris</i> Johann Sebastian Bach - Chaconne, dalla Partita No. 2 BWV 1004</p>	
<p>11:00 – 11:30</p>	<p>COFFEE</p>	
	<p style="text-align: center;">Economics (Auditorium) <i>Session Chair: Lorenzo Castelli, Università degli Studi di Trieste</i></p>	<p style="text-align: center;">Applied Modelling & Optimization (Theatre) <i>Session Chair: David Perez, Innaxis</i></p>
<p>11:30 – 13:00</p>	<p style="text-align: center;">Price-Setting Auctions for Airport Slot Allocation: a Multi-Airport Case Study <i>Ricardo Herranz, Nommon</i></p>	<p style="text-align: center;">Improvement of Pushback Time Assignment Algorithm via Stochastic Optimization <i>Ryota Mori, ENRI</i></p>
	<p style="text-align: center;">Modulation of En-route Charges to Redistribute Traffic in the European Airspace <i>Lorenzo Castelli, Università degli Studi di Trieste</i></p>	<p style="text-align: center;">Pre-Tactical Planning of Runway Utilization Under Uncertainty: Optimization and Validation <i>Norbert Fürstenau, DLR</i></p>
	<p style="text-align: center;">Efficiency vs. Flexibility in ATM: Can Pricing Help? <i>Radosav Jovanovic, University of Belgrade</i></p>	<p style="text-align: center;">ELSA Air Traffic Simulator: an Empirically Grounded Agent Based Model for the SESAR Scenario <i>Salvatore Micciche, Università degli Studi di Palermo</i></p>

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13:00 – 14:30

LUNCH

Capacity and Airspace Design (Auditorium)
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 (Theatre)**

*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

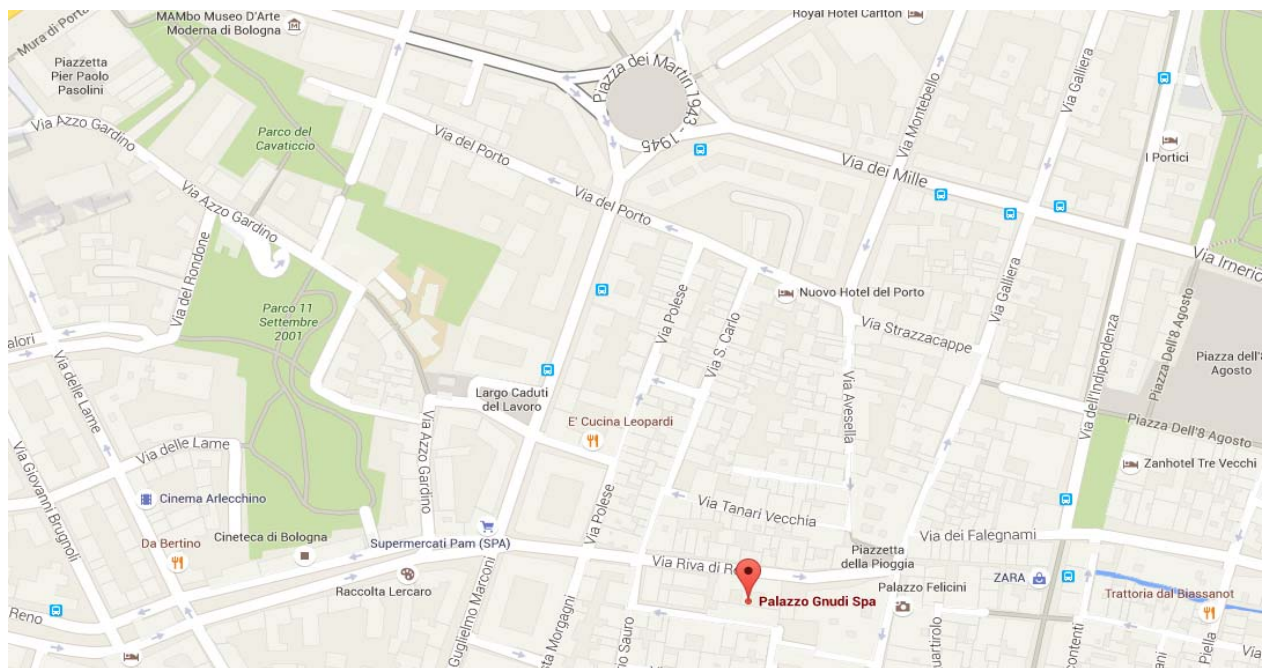
POSTERS AND EXHIBITS SESSION 2, COFFEE

19:00

NETWORKING EVENT**

Palazzo Gnudi
Via Riva Reno 77
Bologna

** Participant contribution: 40 € (to be paid at the conference desk, cash payments only)



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Thursday, 3 December 2015

	Meteo <i>Session Chair: Paul Neering, IFATCA</i>	Safety and Security <i>Session Chair: Bruno Lamiscarre, ONERA</i>
9:00 – 10:30	<p>Recommendations on Trajectory Selection in Flight Planning based on Weather Uncertainty <i>Alan Hally, Météo-France</i></p> <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>Preliminary Experiments on the Relative Comprehensibility of Tabular and Graphical Risk Models <i>Katsiaryna Labunets, University of Trento</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	
	Closing Session <i>Session Chair: David Bowen, SJU</i>	
11:00 – 11:30	The future of SESAR Exploratory Research <i>David Bowen, SJU</i>	
11:30 – 12:15	Young Scientist Award Nominees present their Research Awards presented by the SESAR Scientific Committee	
12:15 – 12:30	Latest news from SESAR	
12:30 – 13:00	Closing plenary Report and Observations from HALA! Report and Observations from ComplexWorld	
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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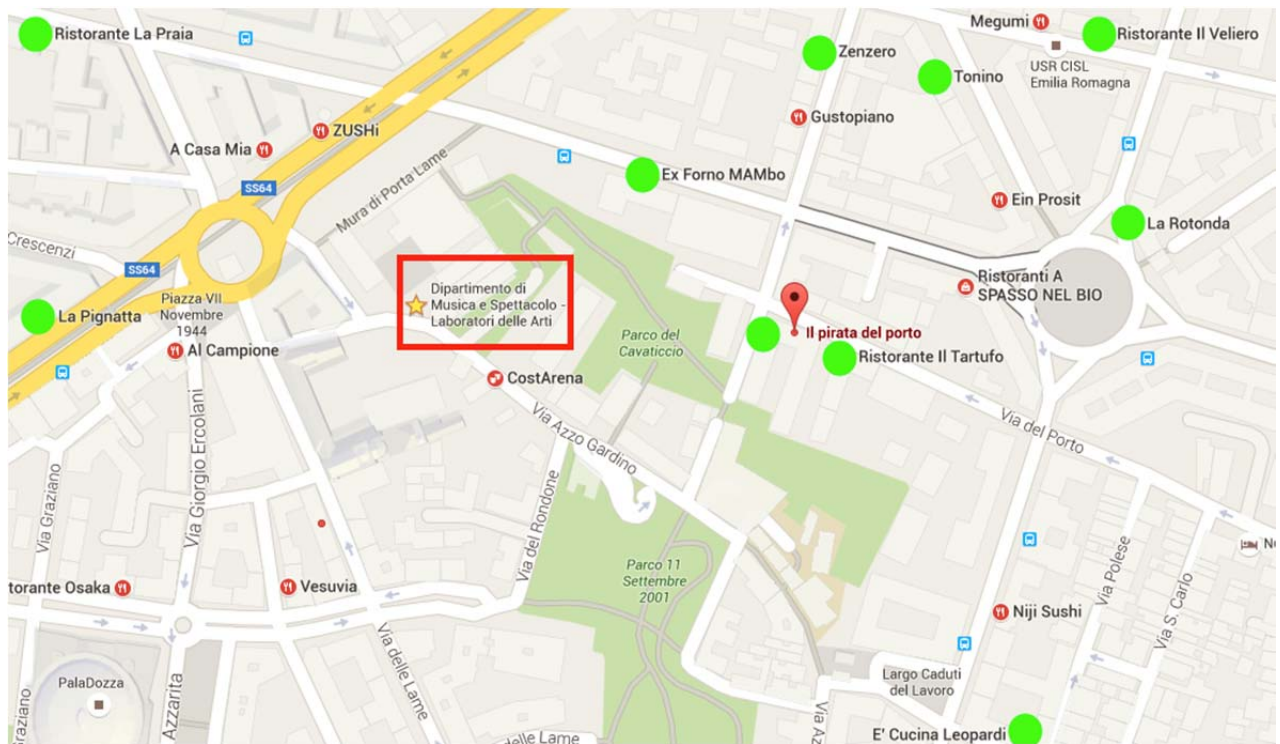
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Restaurants walking distance from Laboratori delle Arti



A number of restaurants are walking distance from the conference venue, none of them further than a 10 minute walk away from the Laboratori delle Arti. Green dots are recommendations of our local organizers.