



AIDAA
ASSOCIAZIONE ITALIANA
DI AERONAUTICA E ASTRONAUTICA

CEAS
Council of European
Aerospace Societies

AIAA
SHAPING THE FUTURE OF AEROSPACE



Aeroacoustics 2024

4 - 7 June, Roma, Italy

The 30th AIAA/CEAS Aeroacoustics Conference

CONFERENCE PROGRAM

www.aidaa.it/aeroacoustics/

Aeroacoustics 2024

Welcome to the 30 th AIAA/CEAS Aeroacoustics Conference	3
About AIDAA & Aerospace Italy 2024	3
Program at a glance	4
Welcome cocktail	5
Conference dinner	6
Conference program	6
Keynotes	7
Plenary sessions	7
Special sessions	7
Venue and accommodation	7
General information	7
Contacts & committees	10
Information for chairs & speakers	12
Awards	12
Patronage	12
Sponsor/exhibitors	13

Welcome to the 30th AIAA/CEAS Aeroacoustics Conference

Dear Colleagues,

On behalf of the Italian Association of Aeronautics and Astronautics (AIDAA), I am proud to invite professionals from academia, industry, and government representatives to attend the 30th AIAA/CEAS Aeroacoustics Conference.

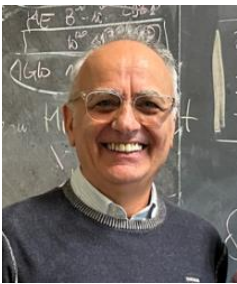
Since the first AIAA/CEAS in Munich in 1995, this event, year by year, has become the world's primary forum, the reference place to be, for Scientists working on aeroacoustics. Such a format represents a unique case where something originated in the aerospace field and has led the worldwide community in other engineering and science domains.

The long-lasting success of the Aeroacoustics Conference has been confirmed and strengthened in Rome in 2024 due to the participation of the highest number ever of leading experts and leaders of top aerospace industries, research centers, universities, and government representatives.

As a founding member of CEAS, AIDAA will be proud to deliver a memorable congress thanks to the support of the Italian aeronautical community, particularly the AIDAA members of the Roma Chapter of AIDAA.

AIAA/CEAS Aeroacoustics Conference will be held at Roma Tre from 4 to 7 June 2024.

I look forward to welcoming you in Rome.



Professor Erasmo Carrera

President of the Italian Association of Aeronautics and Astronautics

About AIDAA & Aerospace Italy 2024

AIDAA (www.aidaa.it), founded in 1920, was one of the first Aerospace Associations worldwide and aims to promote the development and diffusion of aeronautical and space science. AIDAA's journal is *Aerotecnica Missili e Spazio*, <https://link.springer.com/journal/42496>, launched and continuously released since 1920. Submissions to ATMS related to Aerospace Science and Engineering are welcome, including Aeronautics, Aviation, and Space.

AIDAA is the hosting society of three world congresses in 2024: the International Astronautical Congress (IAC 2024, Milano); the Congress of the International Council of Aeronautical Sciences (ICAS, Firenze); the AIAA/CEAS Aeroacoustics Congress (Roma). For the first time, these congresses are hosted by the same country just a few weeks apart. To pave the way to 2024, AIDAA launched the Aerospace Italy 2024 Initiative, www.aidaa.it/aerospaceitaly2024/, to promote and support the organization of events in Italy and define the Road to 2024. Please [visit www.aidaa.it/become-a-member/](http://www.aidaa.it/become-a-member/) to become a member of AIDAA and www.aidaa.it/support-us/ to support it.



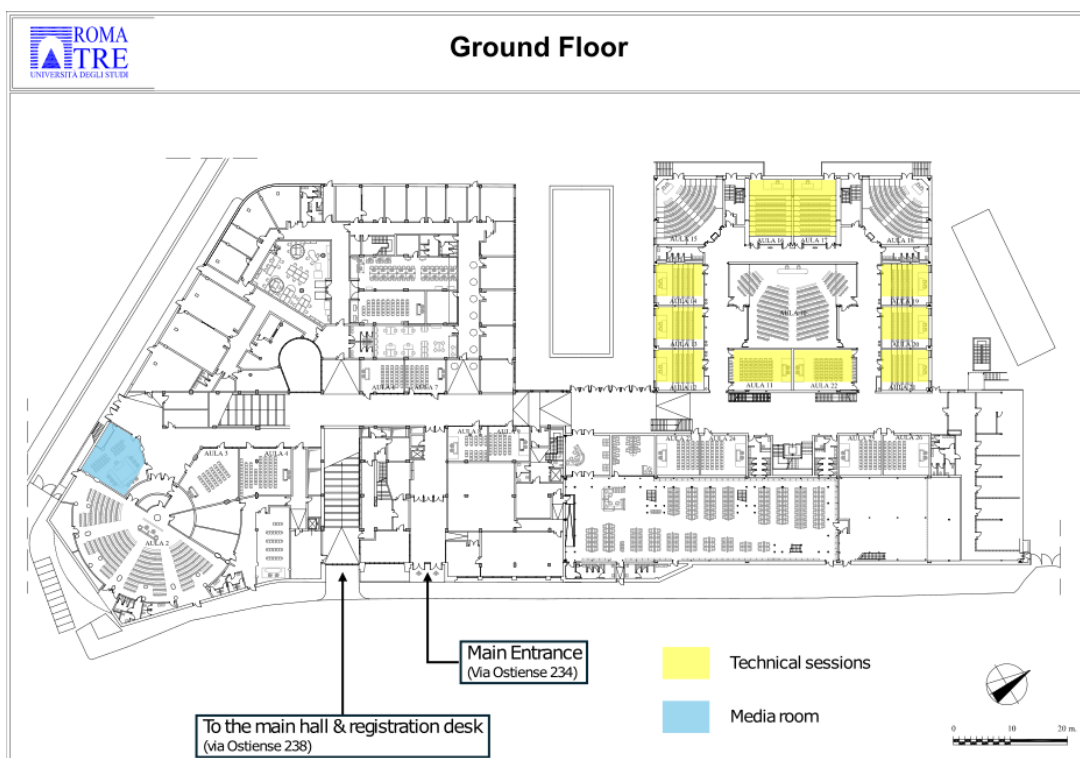
Program at a glance

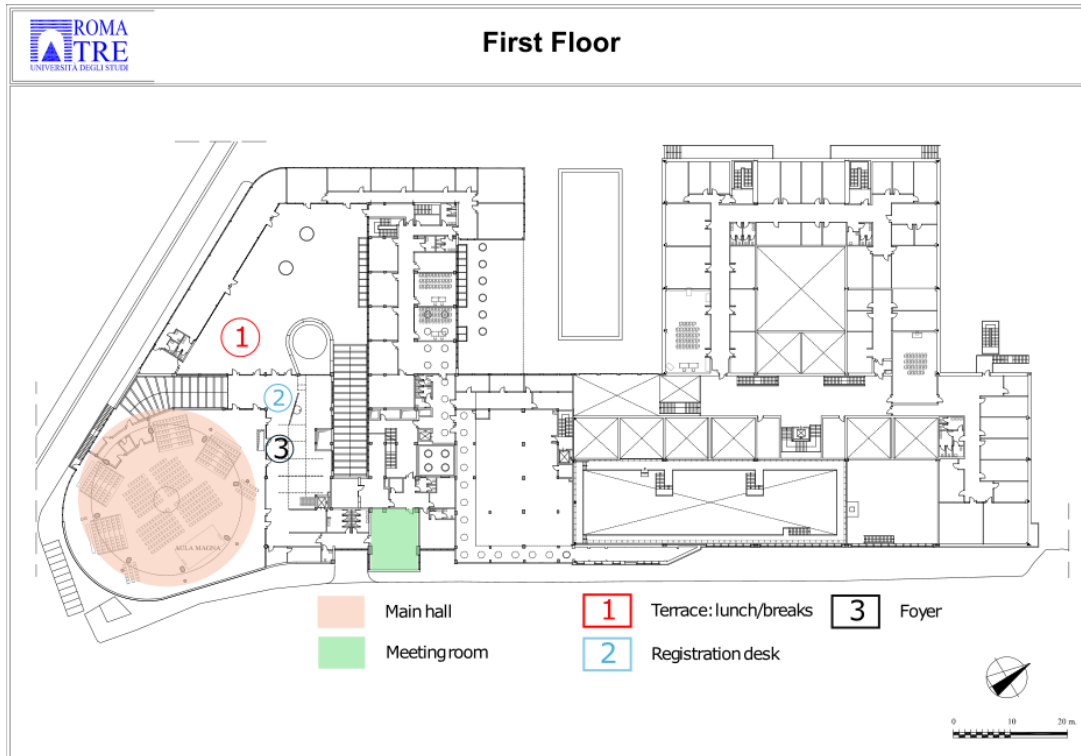
The venue of the conference is Università degli Studi Roma Tre, founded in 1992. Buildings and departments were built to pursue urban renewal of abandoned industrial areas of the city. The conference venue will be the Department of Foreign Languages, Literatures and Cultures, which was formerly an Alfa Romeo's factory. The plant was built in the 1930s and was mainly devoted to producing trucks and aircraft engines for the Italian Army. After World War II, the factory was reconverted for the production of racing cars and heavy-duty engines and for the assisted sale of cars. The old showroom is now the lecture hall of the Department of Foreign Languages, Literatures and Cultures, with 500 seats. A permanent photographic exhibition pays tribute to those who made glorious the Alfa Romeo brand.

The conference registration desk is on the first floor, by the Main Hall (see floor plan for more details). It will welcome you on Monday 3rd, from 3:00 to 5:00 pm and it will be open throughout the Conference from 8:00 am.

Participants can refer to the [conference programme](#) to find out the room where the presentations will be held. Plenary session will be held in the Main Hall.

Lunches and breaks will be served on the terrace by the Main Hall on the first floor.





Welcome cocktail

The welcome cocktail will be at 7:30PM at Ripa Grande Garden on Tuesday 4th. Buses will drive all delegates to Ripa Grande Garden (bus will depart from the Conference center at 7:00PM).



Conference dinner

The Gala dinner will be at 8:00 pm at Palazzo Brancaccio on Thursday 6th. Busses will drive all delegates to Palazzo Brancaccio (bus departure at 7:30 pm from the conference center).



Conference program

The program is updated and amended till Congress. The complete and updated version of the program can be found here: <https://www.aidaa.it/aeroacoustics/programme/>

TUESDAY (4 JUNE)		WEDNESDAY (5 JUNE)		THURSDAY (6 JUNE)		FRIDAY (7 JUNE)	
8:00-8:45	REGISTRATION	8:00-8:30	REGISTRATION	8:00-8:30	REGISTRATION		
8:45-9:00	Opening ceremony	8:30-9:00	Technical Sessions	8:30-9:00	Technical Sessions	8:30-9:00	Keynote AIAA
9:00-9:45	Keynote CEAS	9:00-9:30	Technical Sessions	9:00-9:30	Technical Sessions	9:00-9:30	Keynote AIAA
9:45-10:00	FAST BREAK	9:30-10:00	Technical Sessions	9:30-10:00	Technical Sessions	9:30-10:00	BREAK
10:00-10:30	Technical Sessions	10:00-10:30	Technical Sessions	10:00-10:30	Technical Sessions	10:00-10:30	Technical Sessions
10:30-11:00	Technical Sessions	10:30-11:00	BREAK	10:30-11:00	BREAK	10:30-11:00	Technical Sessions
11:00-11:30	Technical Sessions	11:00-11:30	CEAS AWARD LECTURE	11:00-11:30	AIAA AWARD LECTURE	11:00-11:30	Technical Sessions
11:30-12:00	Technical Sessions	11:30-12:00	CEAS AWARD LECTURE	11:30-12:00	AIAA AWARD LECTURE	11:30-12:00	Technical Sessions
12:00-12:30	Technical Sessions	12:00-12:30	CEAS AWARD LECTURE	12:00-12:30	AIAA AWARD LECTURE	12:00-12:30	Technical Sessions
12:30-13:00	LUNCH	12:30-13:00	LUNCH	12:30-13:00	LUNCH	12:30-13:00	LUNCH
13:00-13:30	LUNCH	13:00-13:30	LUNCH	13:00-13:30	LUNCH	13:00-13:30	LUNCH
13:30-14:00	LUNCH	13:30-14:00	LUNCH	13:30-14:00	LUNCH	13:30-14:00	LUNCH
14:00-14:30	Technical Sessions	14:00-14:30	Technical Sessions	14:00-14:30	Technical Sessions	14:00-14:30	Technical Sessions
14:30-15:00	Technical Sessions	14:30-15:00	Technical Sessions	14:30-15:00	Technical Sessions	14:30-15:00	Technical Sessions
15:00-15:30	Technical Sessions	15:00-15:30	Technical Sessions	15:00-15:30	Technical Sessions	14:30-15:00	Technical Sessions
15:30-16:00	Technical Sessions	15:30-16:00	Technical Sessions	15:30-16:00	Technical Sessions	15:00-15:30	Technical Sessions
16:00-16:30	BREAK	16:00-16:30	BREAK	16:00-16:30	BREAK	END	
16:30-17:00	Technical Sessions	16:30-17:00	Technical Sessions	16:30-17:00	Technical Sessions		
17:00-17:30	Technical Sessions	17:00-17:30	Technical Sessions	17:00-17:30	Technical Sessions		
17:30-18:00	Technical Sessions	17:30-18:00	Technical Sessions	17:30-18:00	Technical Sessions		
		18:00-18:30	Technical Sessions				
19:30	WELCOME RECEPTION			20:00	GALA DINNER		
WORKSHOPS	<i>W-FBNP. Workshop: Fan Broadband Noise Prediction</i>						
	WEDNESDAY 5 JUNE						
	<i>W-HAWT. Workshop - Hybrid Anechoic Wind Tunnel</i>						
	THURSDAY 6 JUNE						

Keynotes

- CEAS AEROACOUSTICS AWARD (Wed. 5 June 11am): Pieter Sijtsma (PSA3 formerly at NLR).
- AIAA AEROACOUSTICS AWARD (Thu. 5 June 11am): Krishnamurthy K. Viswanathan (The BOEING Company).

Plenary sessions

- CEAS invited (Tue. 4 June 9am): Pierre Abdel Nour, Leonardo product engineer (Tilt-Rotor).
- AIAA invited (Fri. 7 June 8:30am): Trevor Wood, GE senior principal engineer.

Special sessions

Special Session on **Hybrid Anechoic Wind Tunnels** hosted by William J. Devenport (Virginia Tech), devenport@vt.edu

Fan Broadband Noise Panel hosted by Edmane Envia and Damiano Casalino: edmane.envia-1@nasa.gov, d.casalino@tudelft.nl

Venue and accommodation

The conference venue will be the Department of Foreign Languages, Literatures and Cultures.
Via Ostiense 234, 00142 Roma (Italy).

All rooms are equipped with necessary technology (screen, computer, connectors). Eduroam and conference Wi-Fi is available too. The building is fully accessible to people with impairments and disabilities.

General information

Time Zone

Rome local time in June is GMT + 2 hour (CEST). Timing indicated in the program is to be considered on a CEST- Central European Summer Time basis (GMT + 2).

Currency

Euro (EUR). All major credit cards (Visa, MasterCard, American Express) are accepted in most of the restaurants, shops etc.

Electricity

The electric current supplied is 220 V. Round, two-pin plug points are available, as elsewhere in Europe. In case you have any devices from the USA or UK, please remember to bring a transformer/adapter.

Banking

Most Rome banks open between 08:30 and 13:30 and 14:45 to 15:45 Monday to Friday. They are closed on weekends and public holidays and most of them have a cash dispenser and a currency exchange service.

Telephone numbers

Emergency number: 112

Medical emergency: 118

Fire emergency: 115

Police: 113

Rome airport – <https://www.adr.it/web/aeroporti-di-roma-en/pax-fco-useful-numbers>

For international calls from Italy: 00 + country code + number

For international calls to Italy: +39 + city code + number

24hour Pharmacies: <https://farmaciaditurno.it/rm/roma>

Health regulations

No vaccinations are required when entering in Italy from any other country.

Insurance

The organizers cannot be held responsible for injury to conference attendees or for damage to or loss of their personal belongings, cancellations of bookings etc. regardless of the cause. Attendees are advised to make their own insurance arrangements.

Language

English is the official language of the conference. No simultaneous translation will be provided.

Liability

The Organizing Committee cannot accept any responsibility for personal accidents or damage to private property of the participants. Participants are advised to take out insurance, as they consider necessary. The participant acknowledges that he/she has no right to lodge damage claims against the organizers should the hosting of the conference be hindered or prevented by unforeseen political or economic events or by force majeure, or should non-appearance of speakers or other reasons necessitate Program changes. By his/her registration, the participant accepts this provision.

Mobile phones

Use of GSM mobile phones in frequency-bands 900 MHz or 1800 MHz. Use of UMTS mobile phones in the area of the venue is possible but no coverage guarantee can be given.

VISA

The organizing committee suggests making VISA arrangements for entry in Italy on time, if needed. Such arrangements are the responsibility of attendees and other participants and may take up to several months. Depending on nationality, country of residence and length of stay, you may or may not require a VISA to enter the country. Complete information on VISA requirements and, if needed,

how to apply for a VISA to enter Italy can be found on the Italian Government website:
<https://vistoperitalia.esteri.it/home/en#BMSommario>

If needed, authors of accepted papers may request an invitation letter to be used with your Visa application to attend Aeroacoustics 2024. Email requests for invitation letters to aeroacoustics2024@aidaa.it

Travel information

How to reach the venue by subway: take line B and get off at the “Marconi” stop. Once you exit the subway, take Viale Marconi towards Ponte Marconi and turn right on the second street into Via del Valco di San Paolo.



Exit the Marconi metro station and turn right. Walk along Viale Marconi, turn on the first street on the right (Via dei Caduti di Santa Croce) and then turn on the left on Via Ostiense.

The main entrance is on the left at the civic number 234-236.

Where to buy subway tickets? <https://www.atac.roma.it/en/home>

How to reach the venue by bus: take bus 23 (towards Largo San Leonardo Murialdo) or buses 170, 791, and 761 and get off at the Marconi/Pincherle stop.

Where to buy bus tickets? <https://www.atac.roma.it/en/home>

How to reach the venue from Termini or Tiburtina train stations: take Line B (direction Laurentina) and get off at the “Marconi” stop. (see above)

How to reach the venue from Fiumicino “Leonardo da Vinci” Airport (FCO): take the metropolitan train in the direction of Orte and/or Fara Sabina (remember to validate the ticket), get off at the “Roma-Ostiense” stop and take the metro B (towards Laurentina) and get off at the “Marconi” stop. (see above)

Taxi: <https://www.060608.it/en/trasporti/muoversi-in-citta/in-taxi>

Website

30th AIAA/CEAS Aeroacoustics Conference (Aeroacoustics 2024) website:
<https://www.aidaa.it/aeroacoustics/>

Wi-Fi

Available: password will be given upon registration

Cancellation policy

No refunds are possible in case of cancellation. Should the participant be unable to attend, he/she may, however, be substituted by a colleague. Name changes must be made in writing and sent to info@aidaa.it

Conference proceedings

Proceedings for the forum will be available online. The cost is included in the registration fee where indicated. Online proceedings will be available for viewing and downloading around 30 May 2024. Details will be provided by AIAA.

Contacts & committees

For information regarding registration and partnership, participants are invited to contact aeroacoustics2024@aidaa.it

Questions concerning the technical program should be referred to:

Kent Gee, kentgee@byu.edu – AIAA Technical Co-Chair

Francesco Marulo, francesco.marulo@unina.it – CEAS Technical Co-Chair

Roberto Camussi, roberto.camussi@uniroma3.it – Administrative Chair

Damiano Casalino, d.casalino@tudelft.nl – CEAS Student Paper Chair

Cliff Brown, clifford.a.brown@nasa.gov – AIAA Student Paper Chair

Chairs

Kent Gee, Brigham Young University – AIAA Technical Co-Chair

Francesco Marulo, Università di Napoli Federico II – CEAS Technical Co-Chair

Roberto Camussi, Università degli Studi Roma Tre – Administrative Chair

Damiano Casalino, TU Delft – CEAS Student Paper Chair

Cliff Brown, NASA – AIAA Student Paper Chair

Local Chair

Erasmus Carrera, AIDAA President

AIAA/CEAS Committee

Gareth Bennett

Hans Bodén

Dominique Collin

William Devenport

Lars Enghardt

Daniel Juvé

Seongkyu Lee

Dimitri Papamoschou

Sjoerd Rienstra

Parthiv Shah

Alec Wilson

Julian Winkler

Local Committee

Francesco Paolo Adamo, CIRA

Renzo Arina, Politecnico di Torino

Francesco Avallone, Politecnico di Torino

Mattia Barbarino, CIRA

Lorenzo Burghignoli, Università degli Studi Roma Tre

Maria Cinefra, Politecnico di Bari

Elisa De Paola, Università degli Studi Roma Tre

Sergio De Rosa, Università di Napoli Federico II

Giuseppe Dilillo, Leonardo

Matteo Filippi, Politecnico di Torino

Paolo Gardonio, Università degli Studi di Udine

Nicola Gravagnone, Leonardo

Alberto Guardone, Politecnico di Milano

Vincenzo Gulizzi, Università di Palermo

Matteo Mancinelli, Università degli Studi Roma Tre

Stefano Meloni, Università della Tuscia

Giuseppe Petrone, Università di Napoli Federico II

Francesco Petrosino, CIRA

Caterina Poggi, Università degli Studi Roma Tre

Cristoforo Viscardi, Leonardo

Information for chairs & speakers

Upload of presentations will be done on the day of the presentation in the subject room. Presenters are requested to meet with their session chair at least 15 minutes prior to the start of the subject session.

Each session room is equipped with a PC system (latest versions of Windows based operating system, MS Office, Adobe reader) for presentation purposes. Presentation equipment aspect ratio is 16:9. Own devices may be used for presentation purposes, but compatibility of systems and interfaces cannot be guaranteed. Available interface is HDMI. Therefore, presenters in any case should bring their presentation on a USB-stick.

There will be no speaker briefings.

"No Paper, No Podium" and "No Podium, No Paper" Policies

If a written paper is not submitted by the final manuscript deadline, authors will not be permitted to present the paper at the conference. It is the responsibility of those authors whose papers or presentations are accepted to ensure that a representative attends the conference to present the paper in person. If a paper is not presented at the conference, it will be withdrawn from the conference proceedings. These policies are intended to eliminate no-shows and to improve the quality of the conference for attendees.

Awards

Student Paper Award

Undergraduate and graduate students are encouraged to submit papers to the Aeroacoustics Student Paper Competition by selecting the "Student Paper Competition" presentation type when uploading abstracts. Student papers should report on thesis-related work conducted in collaboration with faculty advisors. The primary author must have been a student in May 2024 and must present the paper. The award will be based on the technical quality of the paper and the clarity of the presentation. The winning student will receive a monetary award and certificate.

Patronage



Sponsor/exhibitors



An Axiometrix Solutions Brand

<https://www.grasacoustics.com/>

<https://www.grasacoustics.com/industries/aerospace-defense/>



<https://www.3ds.com/>

<https://www.3ds.com/products/simulia>



pininfarina

<https://pininfarina.it/sectors/wind-tunnel/>