



Humanoids 2024

IEEE- RAS International Conference on Humanoid Robots

Nancy, France, on November 22-24, 2024



Call for Papers, Workshop, Exhibitions and Sponsors

CALL FOR PAPERS

We are very pleased to invite you to contribute to the IEEE RAS International Conference on Humanoid Robots 2024 to be held in Nancy, France, from Nov 22 to 24, 2024.

Author Guidelines / Policies:

1. The deadline for paper submission is July 1st, EOD Pacific Time.
2. The maximum number of pages per paper is 8 (including references)
3. Additional pages are not permitted.
4. Size of paper pdf: 6 MB
5. Each paper can be accompanied by one optional video formats. You may upload or re-upload this attachment until 3 days after the submission deadline, i.e. by July 4th, 2024. The maximum file size is 20 MB. Your video should have the extension mpeg or mpg or mp4. See instructions on papercept

[PDF of Humanoids 2024 Call For Papers](#)

Humanoids 2024 aims at bringing together top researchers from humanoid robotics and related disciplines with leading companies in the field. In light of a year of rapidly evolving humanoid technologies with several new platforms coming onto the market and bringing us closer to a wider real-world deployment. Our community envisions innovative areas in humanoid robotics that lie at the intersection of general-purpose physical, cognitive, and motor capabilities, while also considering the scientific understanding of interactions with humanoid and anthropomorphic systems.



On behalf of the organizing committee, we warmly welcome you next year to Humanoids 2024 in Nancy, France!

Join us to make it a remarkable event, and share your groundbreaking work in humanoid robotics. The interest in our Humanoids conference continues to grow, thanks in large part to your active participation. Make it your first choice for next year. Nancy is one of the most easily accessible cities in Europe. We will continue the humanoid robotics competition in response to the strong interest from our community. Prepare your robots! Additionally, we are offering a hall for exhibitors and companies, along with opportunities to host a session during the conference.

Please contact us for more information and to make reservations.

Serena Ivaldi (Inria) GENERAL CHAIR Tamim Asfour (KIT) PROGRAM CHAIR



The conference will be organized as a 3-day event with workshops and tutorials on the first day, followed by 2 days for the main conference with plenaries, keynotes, oral and interactive sessions, and an industry forum. A centrally located exhibition will feature the latest humanoid technology from both industry and academia.



Humanoids 2024

IEEE- RAS International Conference on Humanoid Robots

Nancy, France, on November 22-24, 2024 

Scope

We invite papers in all areas related to humanoid robotics, including, but not limited to:

- Human biomechanics and motor control, human body and behavior modeling
- Bionic / human-inspired design principles for humanoids
- Human-inspired robot control
- Whole-body dynamics and control
- Optimization, optimal control, and model predictive control methods
- Learning methods for humanoid robots
- Robot modeling for locomotion and/or manipulation
- Exoskeleton / wearable robot design and control
- Prosthesis design and control
- Physical and social human-humanoid interaction
- Dynamic legged locomotion (bipeds, quadrupeds, etc.)
- Loco-manipulation, legged manipulation
- Dual arm dexterous manipulation
- Design, control, and application of multi-finger hands
- Stability and robustness of humanoid and legged robots and humans
- Simulation and physics-based animations from computer graphics
- Humanoid heads and faces, geminoids
- Novel materials, mechanisms, and actuators for humanoids
- Perception for humanoids
- Human-centered robotic studies and applications
- Neuro-robotics and brain-robot interfaces for humanoids and humans
- Real-world applications for humanoid robots (industry, healthcare, home, space, disaster response)
- Benchmarks, performance indicators for humanoid robots
- Ethical and social challenges of humanoid robot deployment
- Long-term deployment of humanoid, bipedal, or dual arm manipulation robots

Accepted papers will be presented either in single-track oral sessions or in interactive sessions. All accepted papers will appear in the proceedings of the conference and on IEEE Xplore without distinction.

The deadline for submissions is July 1st, 2024, end of the day Pacific Time.

Submission Link: <https://ras.papercept.net/conferences/scripts/start.pl>