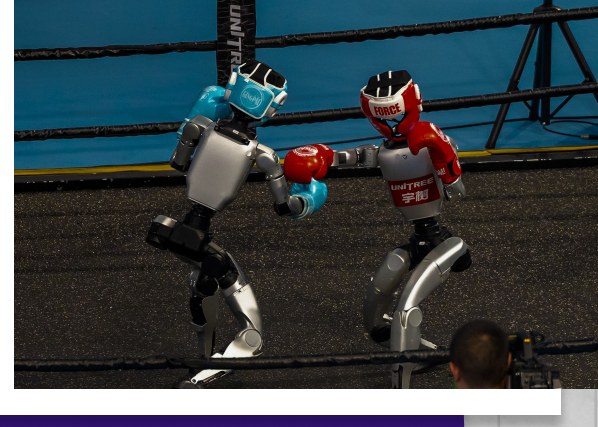




<https://news.cgtn.com/news/2025-08-15/First-World-Humanoid-Robot-Games-showcase-cutting-edge-technologies-1FQKv7FRixO/p.html>

1. First World Humanoid Robot Games in Beijing:

The inaugural event, held at the National Speed Skating Oval, featured 280 teams from 16 countries, including the US, Germany, and Italy. The competition was designed to be an "extreme test" of humanoid robots' capabilities, with events ranging from athletic contests like running, long jump, and soccer to practical skills like moving materials and sorting drugs. The event's purpose was to push the technology from the lab into real-world applications in factories, hospitals, and homes, a crucial step toward achieving large-scale production.

2. AI Gets Smarter with Multimodal LLMs:

AI is evolving fast—and one of the biggest game-changers right now is the rise of multimodal large language models. These are AI systems that can understand not just text, but also images and voice commands. For robots, this means they no longer need to be rigidly pre-programmed for every little task.

Instead, they can respond more naturally to humans, learn as they go, and adapt to new situations on the fly. It's a major step toward building truly general-purpose robots—machines that can work alongside us, understand us, and even anticipate what we need.

<https://appscriber.com/multimodal-llm/>



3. New Humanoid and Quadruped Robots Released:

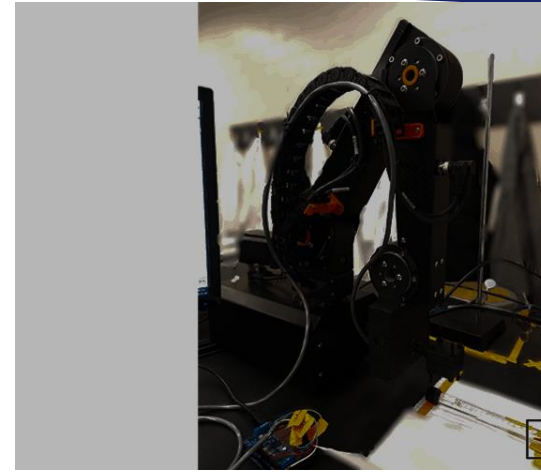


<https://www.unitree.com/A2>

Robots are getting smarter—and more accessible. Unitree Robotics just made waves with the launch of two impressive new models. First up is the Unitree A2, their most advanced quadruped robot yet. It can carry up to 100 kg and travel 20 km on a single charge, making it perfect for heavy-duty tasks in areas like logistics, inspection, and even disaster response. But what's really turning heads is the Unitree R1, a new humanoid robot priced at just \$5,900. That's incredibly affordable compared to most humanoids, and it's opening the door for hobbyists, educators, and researchers to get hands-on with cutting-edge robotics—without breaking the bank. It's a big step toward making robotics more mainstream and accessible to everyone.

4. Robots for Kidney Stone Treatment:

A research team led by the University of Waterloo has created tiny, magnetic, spaghetti-like robots designed to dissolve uric acid kidney stones. The soft, flexible robots are guided by a robotic arm and contain an enzyme that reduces the acidity of the surrounding urine, dissolving the stones until they are small enough to pass naturally. This is a significant breakthrough in minimally invasive medical procedures.



<https://uwaterloo.ca/news/soft-robots-go-right-site-kidney-stones>

5. Focus on Sustainability:

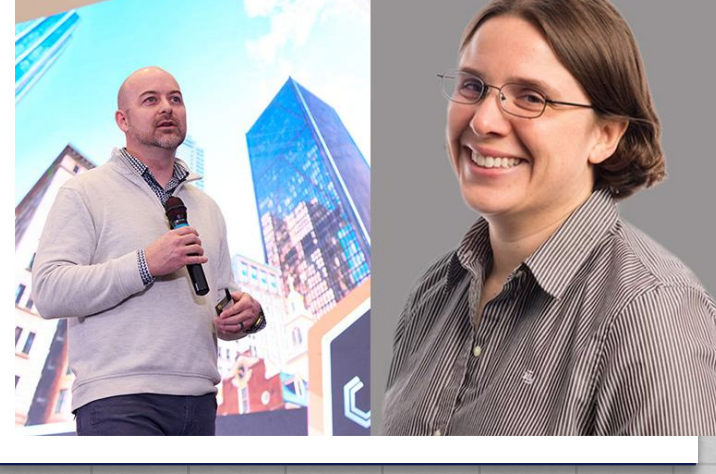
The robotics industry is making a concerted effort toward sustainability. New robot designs are incorporating eco-friendly and recyclable materials. Additionally, innovations in battery technology and power management are improving the energy efficiency of robots. This trend aligns with a global push to reduce the carbon footprint of technology.



https://www.researchgate.net/publication/381788146_Challenges_of_Robotic_Technology_in_Sustainable_Construction_Practice

6. Leadership Changes at Major Robotics Companies:

Both Agility Robotics and Boston Dynamics saw high-level executive departures. Aaron Saunders, the CTO of Boston Dynamics and a key figure in the development of Atlas and BigDog, and Melonee Wise, the chief product officer at Agility Robotics, have both left their roles. These changes could signal a new strategic direction for both companies as they continue to refine their humanoid robot technology.



https://www.researchgate.net/publication/381788146_Challenges_of_Robotic_Technology_in_Sustainable_Construction_Practice

7. Surgical Robotics Advancements:

The field of surgical robotics is seeing significant improvements driven by AI. New systems are using digital twins to create a virtual replica of a patient's anatomy, allowing surgeons to plan and simulate procedures beforehand. Additionally, augmented reality (AR) overlays crucial information onto the surgeon's view in real-time, improving accuracy and safety during delicate operations.



<https://pmc.ncbi.nlm.nih.gov/articles/PMC12181090/>

8. Xpanner Launches Autonomy Retrofit Kit:

Xpanner's new X1 Kit is a game-changer for the construction industry. It's a "physical AI" retrofit system that can be easily integrated into existing construction machinery, turning them into intelligent, software-defined machines. The company has demonstrated its effectiveness in pile driving, where it slashed labor needs by 80% and operation time by 50%.

<https://ai-techpark.com/xpanner-launches-x1-scalable-ai-automation-for-construction/>

9. Swarm Robotics for Aircraft Manufacturing:

Experts are discussing how swarm robotics, where multiple AI-driven robots work together with a common "consciousness," could replace traditional assembly lines. This is particularly relevant for large, complex structures like airplanes. The method promises to enable faster, lower-cost production with higher precision and enhanced safety by eliminating human error.

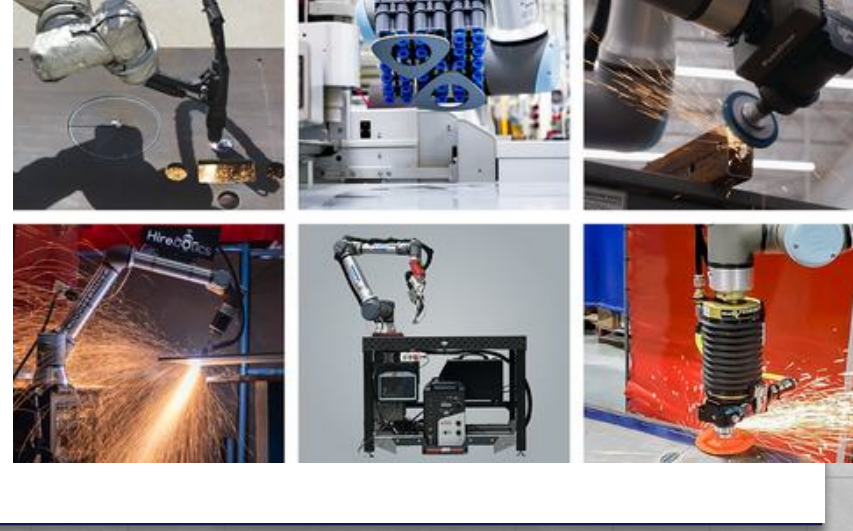


https://www.cna.org/archive/CNA_Files/pdf/drm-2017-u-014796-final.pdf

10. Universal Robots Powers New Industrial Solutions:

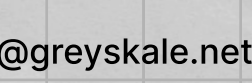
At FABTECH 2025, Universal Robots showcased how far collaborative robots—or cobots—have come in transforming modern manufacturing. Their latest demos featured cobots performing laser welding, finishing, and plasma cutting—tasks once limited to large, specialized machines. What's impressive is how these flexible, easy-to-program robots are now being integrated into high-precision industrial processes, proving that automation doesn't have to be complicated or reserved for massive factories.

This shift marks a growing trend: making automation more accessible to businesses of all sizes. By combining user-friendly design with advanced capabilities, cobots are helping manufacturers boost productivity, improve quality, and reduce the risks associated with repetitive or hazardous tasks. Whether you're a small workshop or a large industrial plant, cobots are becoming essential tools—not just machines—on the production floor.



<https://www.marketscreener.com/news/universal-robots-to-power-next-gen-laser-welding-finishing-and-plasma-cutting-at-fabtech-2025-ce7c50d3d08cfe24>

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