

NEWSLETTER

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China's humanoid robots accelerate industrial adoption

China is rapidly advancing humanoid robotics, with over 100 million robots projected across industries by 2045, valued at about 10 trillion yuan (\$1.4 trillion). Firms like Unitree, AgiBot and Fourier are developing open-source humanoids trained in AI “vocational schools” using VR and motion capture. These robots handle tasks from factory work to logistics, supporting China’s goal to lead embodied AI and intelligent manufacturing. **(Xinhua)**

China achieves breakthrough in fusion reactor development with high-heat divertor prototype

China’s Comprehensive Research Facility for Fusion Technology has developed a divertor prototype that can withstand a steady heat load of 20 MW/m², marking the world’s largest and most heat-resistant model of its kind. The technology, advancing self-sustaining tritium breeding and reactor safety, also shows potential applications in aerospace, high-end medical equipment, electronics and new-energy vehicles. **(CCTV)**

Chinese scientists develop bionic photothermal fabric for smart heating and medical therapy

Chinese researchers from Tianjin University have created a bionic photothermal molecular solar thermal (MOST) fabric inspired by salt-tolerant plants, capable of heating from -20°C to 40°C in just 12 seconds under light. The fabric maintains over 90% efficiency after extensive wear and washing and enables precise temperature control for smart clothing, medical therapy, and outdoor protection applications. **(Xinhua)**

Service robots set to take center stage at Canton Fair

The 138th Canton Fair (15 October – 4 November) in Guangzhou will spotlight service robots as a new growth engine for China’s exports. Following \$19.27 million in confirmed orders and \$28.57 million under negotiation from the previous session, 46 Chinese companies will showcase innovations such as embodied robots and robotic dogs, highlighting China’s growing role in the \$54.5 billion global service robotics market. **(China Daily)**

Technology unlocks new possibilities for people with disabilities in China

In Hangzhou, advanced exoskeleton technology is enabling people with disabilities to stand and walk again. The wearable robotic systems use sensors and brain-computer interfaces to detect movement intent and assist motion. Deployed in over 700 rehabilitation institutions with more than 650,000 uses, the technology has given patients new independence and confidence, marking major progress in inclusive innovation. **(People’s Daily)**