ATHARVA ROBOTICS CENTER

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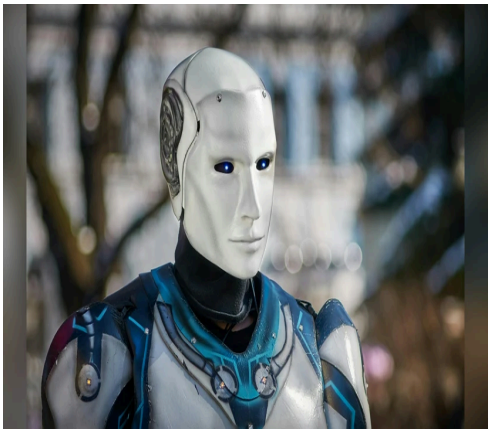
China tops global automation race with record 300,000 industrial robots



By Rimjhim Singh, October 06, 2025

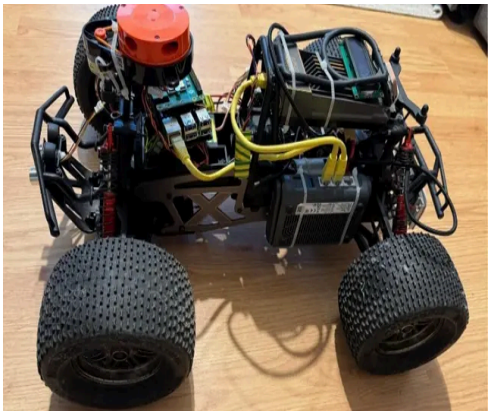
China installed around 295,000 new industrial robots in 2024, helping sustain its manufacturing strength despite a shrinking population. The surge, detailed in the '2025 World Robotics Report' by the International Federation of Robotics (IFR), has brought the country's total number of active robots to a record 2.027 million, the highest in the world, according to a report by South China Morning Post.

FlyingToolbox drone system lets robots swap tools mid-air with precision unseen before

By Aamir Khollam ,October 06, 2025

Researchers at Westlake University in China have developed a new system that allows drones to exchange tools while flying.The system, called FlyingToolbox, marks the first time that multi-rotor drones have performed precise mid-air docking and tool transfers.When one drone flies directly above another, the downward airflow from its propellers creates strong turbulence. This airflow, known as downwash, can reach speeds of over 13 meters per second and disrupt the stability of the drone below.

Romanian ARGUS robot hunts hackers and intruders in real-time security sweep



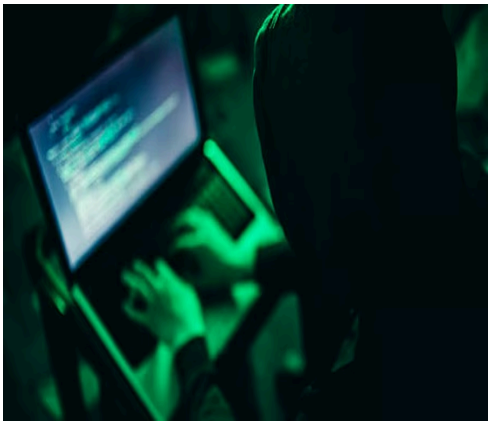
By Neetika Walter,October 06, 2025

A team of Romanian researchers has developed an autonomous robot capable of patrolling physical spaces while scanning for digital intrusions, a dual-defense system that blurs the line between cybersecurity and robotics.Unlike traditional security systems that treat these domains separately, ARGUS merges them, giving it the ability to sense, analyze, and respond to breaches across networks and environments simultaneously.

Bengaluru scientists show quantum path to 'unhackable' OTP

By Asra Mavad, October 06, 2025

The new research at RRI, in collaboration with scientists at the IISc and the University of Calgary in Canada, has proven that it is possible to generate secure, certified random numbers using the inherent randomness in quantum physics.Bengaluru: Quantum researchers led by a senior scientist at the Raman Research Institute (RRI) in Bengaluru have created a “simplified” way for “unhackable” digital security, which could protect banking passwords and encrypted data from cyber attacks.



Samsung, SK hynix boost hiring ahead of AI-driven semiconductor supercycle

By Communication Today, October 06, 2025

South Korea's semiconductor giants Samsung Electronics and SK Hynix are ramping recruitment efforts in anticipation of a new 'supercycle' driven by skyrocketing demand for artificial intelligence (AI) technology.A supercycle refers to a sustained period of expansion due to high demand for products and services. It can last for years and sometimes decades, and is often an indicator of long-term growth in an industry.

Tesla Optimus learning Kung Fu': Elon Musk's humanoid robot stuns with human-like moves and balance

By TOI , October 06, 2025

Tesla's humanoid robot, Optimus, has captured global attention with a remarkable demonstration of artificial intelligence (AI) and real-world physical coordination. Elon Musk shared a short video on X (formerly Twitter) showing Optimus practising Kung Fu alongside a human trainer. The robot flawlessly mimics the trainer's movements, executing precise blocks, changing stances, maintaining perfect balance, and adapting to real-time feedback throughout the session.

Advantest Integrates NVIDIA AI to Bring Real-Time Intelligence to Semiconductor Testing

By SAN JOSE, Calif, October 06, 2025

semiconductor test solutions, today announced it is advancing semiconductor testing with the power of real-time artificial intelligence (AI).Testing has long been the cornerstone of chip manufacturing, ensuring every device meets exacting standards of quality and performance. Traditionally, this required weeks of data collection, fault analysis, and test deployment cycles. ACS RTDI moves testing from validation to prediction—transforming semiconductor production into an AI-driven, continuously adaptive process.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