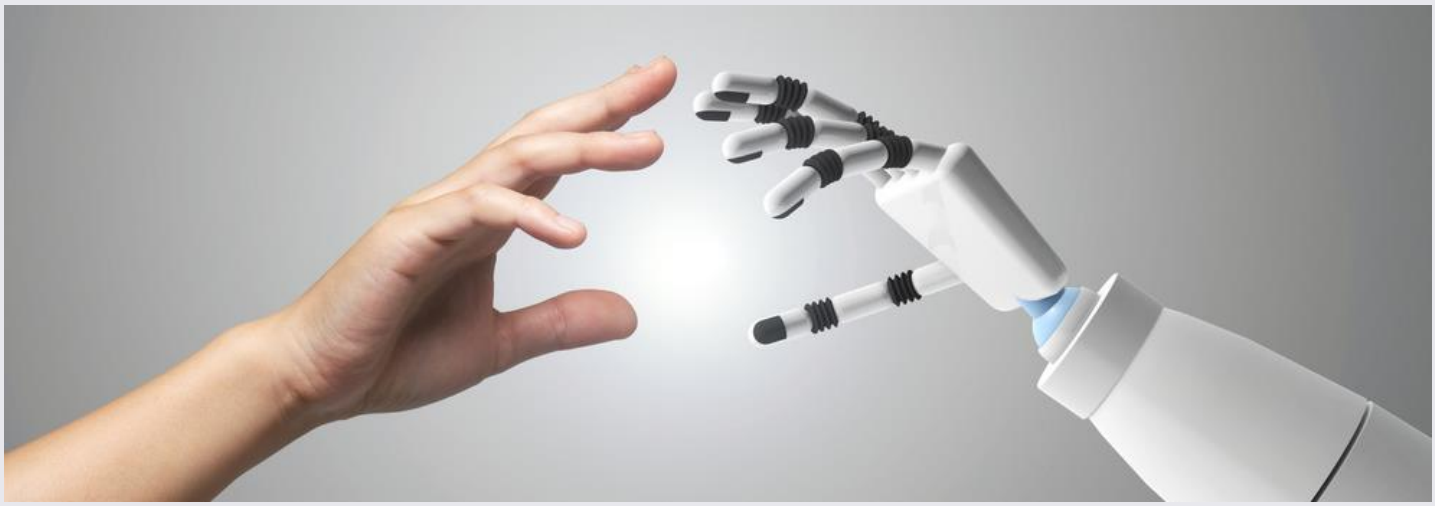
NEWSEFFECT

INNOVATION FRONTIER

April' 2025



Our Company's Growth & Success in 2024

We have been honored as the "IP Service Provider of the Year" at the 4th IP Excellence Awards & Global IP Conclave 2024, hosted by **ASSOCHAM** (The Associated Chambers of Commerce and Industry of India) in Delhi, India.

We have been recognized as one of the Top 10 Pharma IPR Consultants 2024 by India Pharma Outlook.

EffectUal Services
Intelligence That Matters

Content

AI ADVANCEMENTS

CHINA TO RELY ON ARTIFICIAL INTELLIGENCE IN EDUCATION REFORM BID

- China to integrate AI into teaching, textbooks, and curriculum across all education levels.
- Aimed at boosting innovation and national growth.
- Focus on enhancing students' core skills: independent thinking, problem-solving, communication, & teamwork.
- Education ministry says AI will develop key competencies in both teachers and students.
- Part of a broader effort to foster innovative talent and global competitiveness.

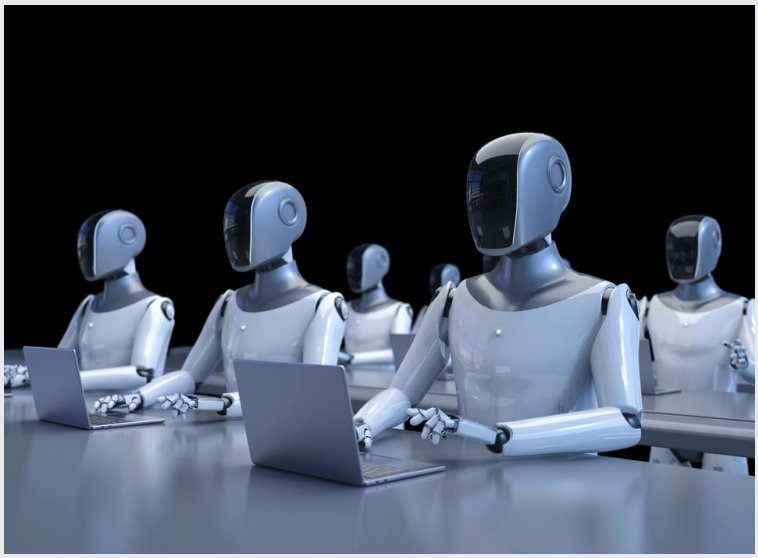
ADVANCEMENTS IN DIABETIC RETINOPATHY DIAGNOSIS WITH OCTA & AI

- OCTA is gaining use in managing diabetic retinopathy (DR).
- Study reviewed 75 articles on OCTA's role in diagnosing DR and its use in diabetes/prediabetes.
- Compared OCTA's advantages over fluorescein angiography (FFA).
- Explored AI's role in OCTA image analysis for DR severity.

AI ADVANCEMENTS

LATEST WORLD TECH NEWS: AL, ROBOTICS, TRENDS

- China is a key player in advancing AI and setting ethical standards.
- Focus on creating AI governance models that balance progress and ethics.
- Efforts may influence global AI regulation approaches.



AI & PHYSICIANS OFFER DISTINCT STRENGTHS IN VIRTUAL URGENT CARE TREATMENT

- Cedars-Sinai study compares AI vs. physician treatment recommendations in virtual urgent care.
- AI and physicians have distinct strengths in offering treatment.
- Physicians had access to AI recommendations, but may not have reviewed them.
- AI also suggests diagnoses and treatments, visible to the physician on Cedars-Sinai Connect.

AI ADVANCEMENTS

ROBOTIC PICKING EXPERTS TO EXPLAIN AI ADVANCEMENTS IN WEBINAR

- Recent advancements in robotic picking: improved grippers, machine vision, and motion-planning.
- Enabled tasks: palletizing, case picking, and sortation.
- Discussion topics: AI approaches, challenges like exception handling, and the development-to-deployment journey.

THE AI REVOLUTION: HOW MACHINES ARE TRANSFORMING MEDICINE FASTER THAN IMAGINED

- AI is rapidly transforming healthcare, enabling faster diagnoses and personalized treatments.
- Once speculative, AI is now integrated into hospitals and clinics worldwide.
- Applications range from medical imaging to optimizing hospital logistics.
- The healthcare sector is experiencing an AI-driven revolution, with constant innovation and growing excitement.

DISRUPTIVE TECHNOLOGIES

CONTROLS ARCHITECTURE READY TO SCALE WITH MACHINE AS DISRUPTIVE TECH EMERGES

- Dry-Molded Fiber (DMF) is a potentially disruptive new material technology.
- First commercial use was by London-based Diageo, testing paper-based bottles for Baileys Irish Cream.
- Invented by Swedish company PulPac. Nurtured to market by PA Consulting, based in London.
- Machinery for molding the DMF packaging was built by Curt JOA Inc. in Wisconsin, USA.
- Curt JOA specializes in equipment for producing disposable hygiene products.

R-ZERO FILTRATION WINS "MOST DISRUPTIVE TECHNOLOGY" AWARD AT DATA CENTER WORLD 2025

- R-Zero named "Most Disruptive Technology" at Data Center World 2025 Innovation Challenge.
- Recognized for its turnkey smart filtration solution enhancing energy and operational efficiency.
- Delivers MERV 13–16 performance with the airflow efficiency of lower-rated filters.
- Cuts energy use and reduces HVAC mechanical strain.
- No construction, downtime, or added complexity required.

DISRUPTIVE TECHNOLOGIES

EU LAUNCHES €104M CALL TO DRIVE 6G TECHNOLOGY INNOVATION ACROSS EUROPE

- Europe launches a €104M funding call to advance 6G technology.
- Builds on over €500M already invested in 80 projects.
- Stream B targets advanced and disruptive 6G innovations.
- Stream C supports experimental infrastructure like Telco Cloud platforms.
- Aims to bridge early research and real-world deployment.

DOUBLE CROWN GLORY, FLOWRAY PHOTON SKIN-REJUVENATION DEVICE RESHAPES THE HOME SKINCARE ERA WITH DISRUPTIVE TECHNOLOGY

- FlowRay Photon Skin-Rejuvenation Device co-developed by MIT, Shanghai Jiao Tong University, and Fudan University.
- Combines medical-grade precision with consumer-friendly design.
- Won US Muse Design Gold Award & French Design Gold Award within a month of launch.
- Integrates three core technologies & delivers five transformative skincare effects.
- Redefines at-home skincare with advanced precision phototherapy.

DISRUPTIVE TECHNOLOGIES

SMOLTEK'S DISRUPTIVE PTE TECHNOLOGY IS ATTRACTING STRONG INTEREST AMONG MAJOR COMPANIES IN THE HYDROGEN INDUSTRY

- Smoltek Hydrogen developed patent-protected nanotech for high-performance porous transport electrodes (PTEs).
- For PEM electrolyzers: 30× increase in catalytic surface area, up to 95% reduction in iridium use.
- Enables cost-effective, fossil-free hydrogen production.
- For fuel cells: lowers internal contact resistance and reduces electrochemical corrosion.
- Offers major performance and lifespan improvements.
- Disruptive tech likened to market shifts seen with Facit or Nokia.
- Scalable, low-risk manufacturing model with technical partners.

IP INSIGHTS

On Humanoid Robot

WHAT IS HUMANOID ROBOT?

Humanoids are general-purpose, bipedal robots modeled after the human form factor and designed to work alongside humans to augment productivity. They're capable of learning and performing a variety of tasks, such as grasping an object, moving a container, loading or unloading boxes, and more..

WHY HUMAN ROBOTS ARE IMPORTANT?

Humanoid robots are designed to work efficiently in human-built environments, enabling automation without redesigning spaces. They hold strong potential for use in warehouses, retail, healthcare, & more.

- **Human-Robot Interaction:** Modeled after the human body, humanoid robots can work alongside people for collaboration on a variety of tasks.
- **Versatility & Adaptability:** Humanoid robots can take advantage of tools and infrastructure originally designed for human use.
- **Productivity:** Humanoid robots augment the completion of routine tasks by operating in the same environment as other workers.
- **Enhanced Safety:** Humanoid robots reduce risk by taking on hazardous tasks in industrial and disaster zones, minimizing human exposure and accidents.

WHAT ARE THE REAL-WORLD USE CASES FOR HUMANOID ROBOTS?

- **Manufacturing:** Assist in assembly, inspections, & physically demanding tasks alongside humans.
- **Warehouse & Logistics:** Handle picking, packing, inventory, and delicate material handling.
- **Healthcare:** Support patient care, operations, and medical procedures.
- **Home Assistance:** Perform daily chores like cleaning, cooking, and laundry.
- **Customer Service:** Serve in retail, airports, hotels, and public-facing roles.

IP INSIGHTS

On Humanoid Robot

FEW HUMANOID ROBOT CURRENTLY USES

Introducing Ameca: The world's most advanced human shaped robot representing the forefront of human-robotics technology. Designed as a platform for development into future robotics technologies, Ameca is the perfect humanoid robot platform for human-robot interaction. We focus on bringing you innovative technologies, which are reliable, modular, upgradable and easy to develop upon.

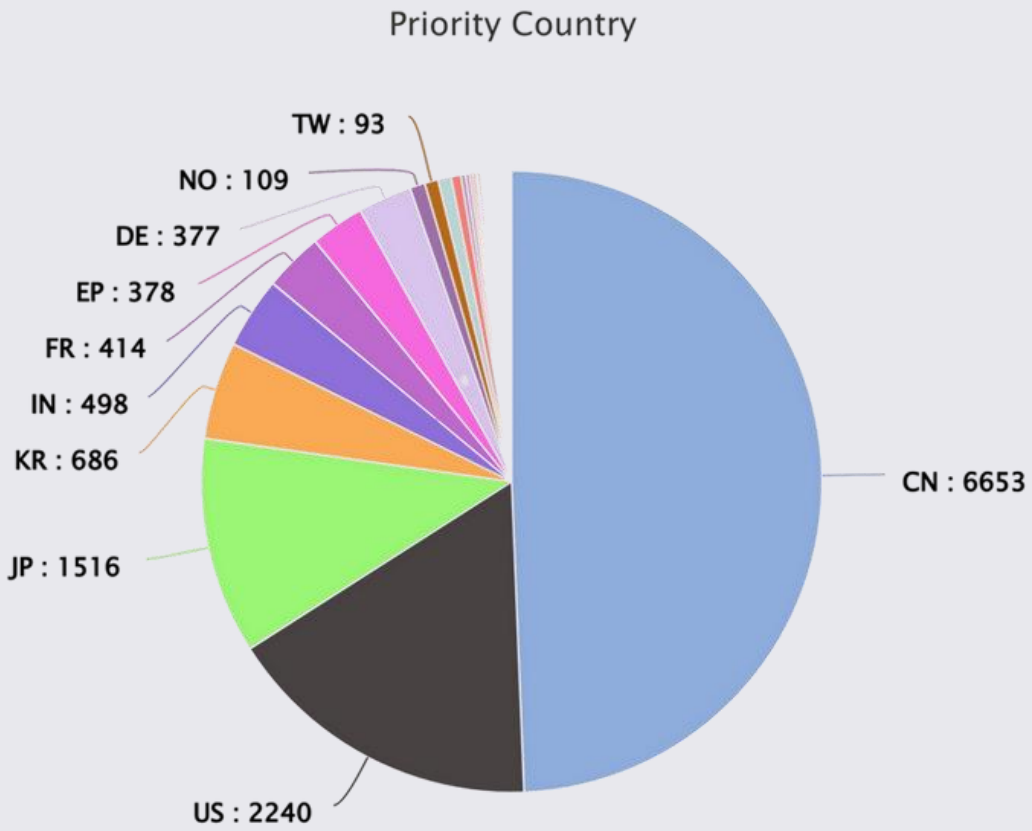
Introducing Atlas®. The world's most dynamic humanoid robot, our fully electric Atlas robot is designed for real-world applications. The next generation of the Atlas program builds on decades of research and furthers our commitment to delivering the most capable, useful mobile robots. An advanced control system and state-of-the-art hardware give the robot the power and balance to demonstrate advanced athletics and agility.

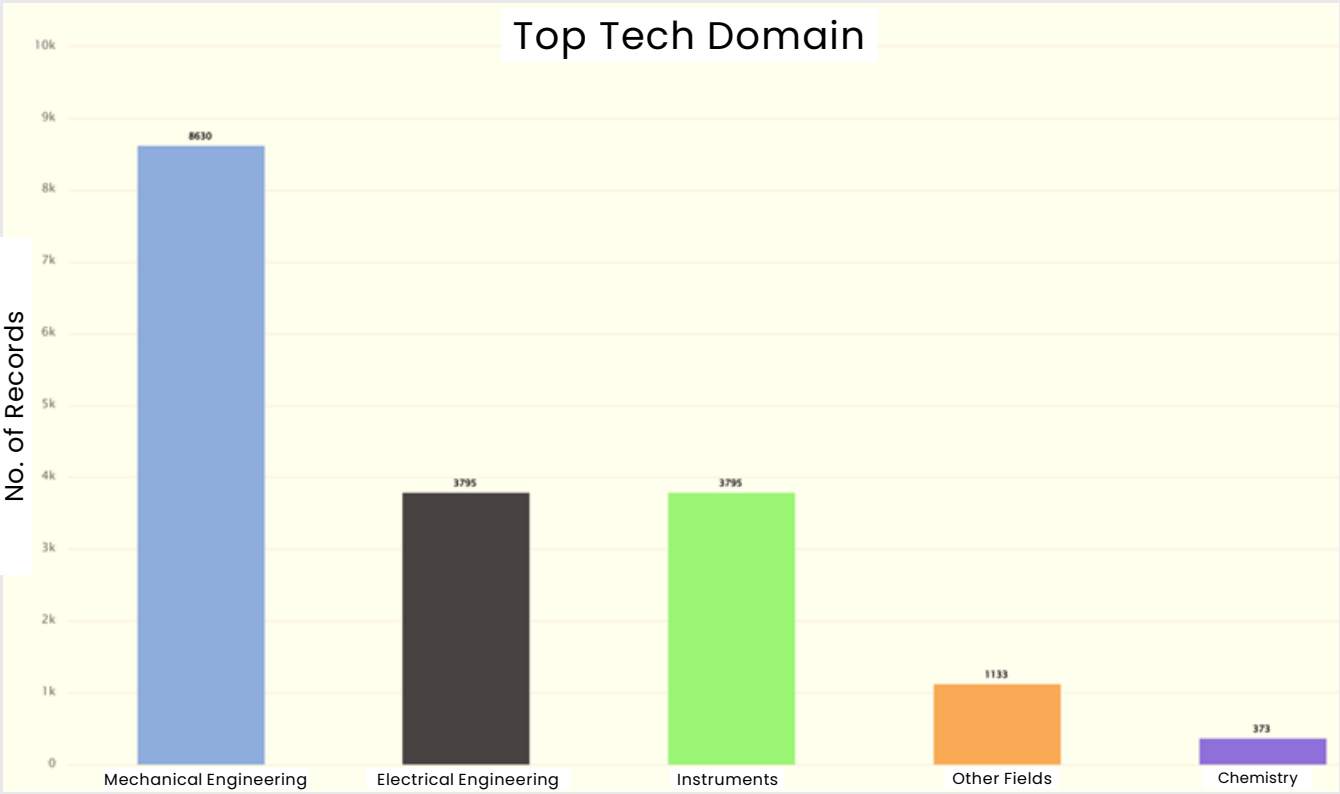
University of science and technology of china – introducing Jia Jia :who can move her arms, make different facial expressions, and respond to human conversation. Jia Jia's limited motion and stilted speech shouldn't leave anyone in any doubt she's a robot. However, she looks fairly realistic, with a flexible plastic face, long flowing brown hair, and an eye-catching gold dress

IP INSIGHTS

On Humanoid Robot

PATENT TRENDS ON HUMANOID ROBOTS

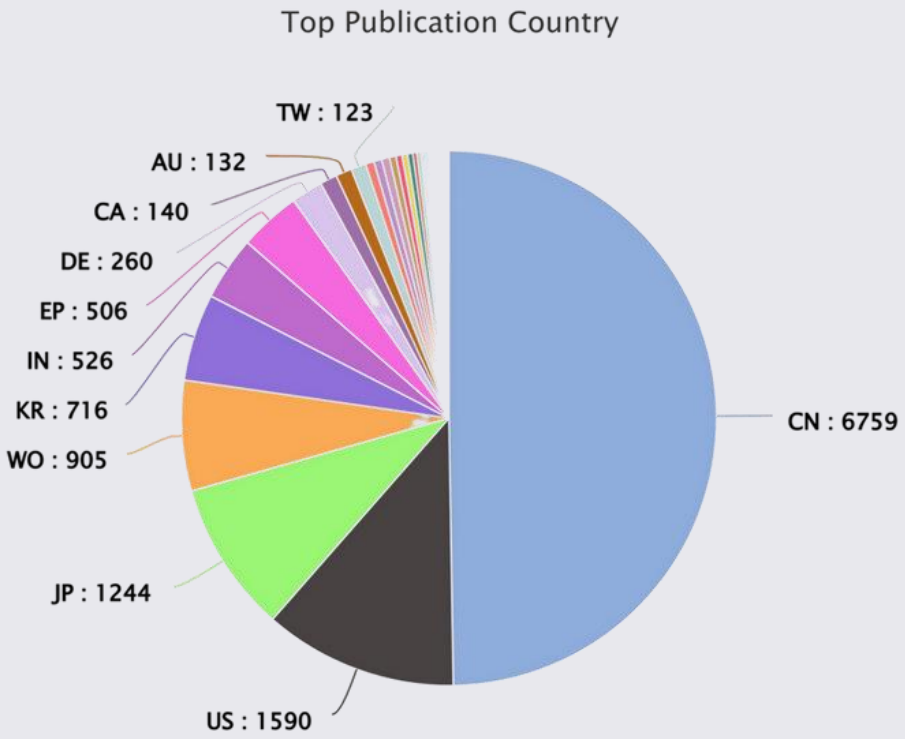


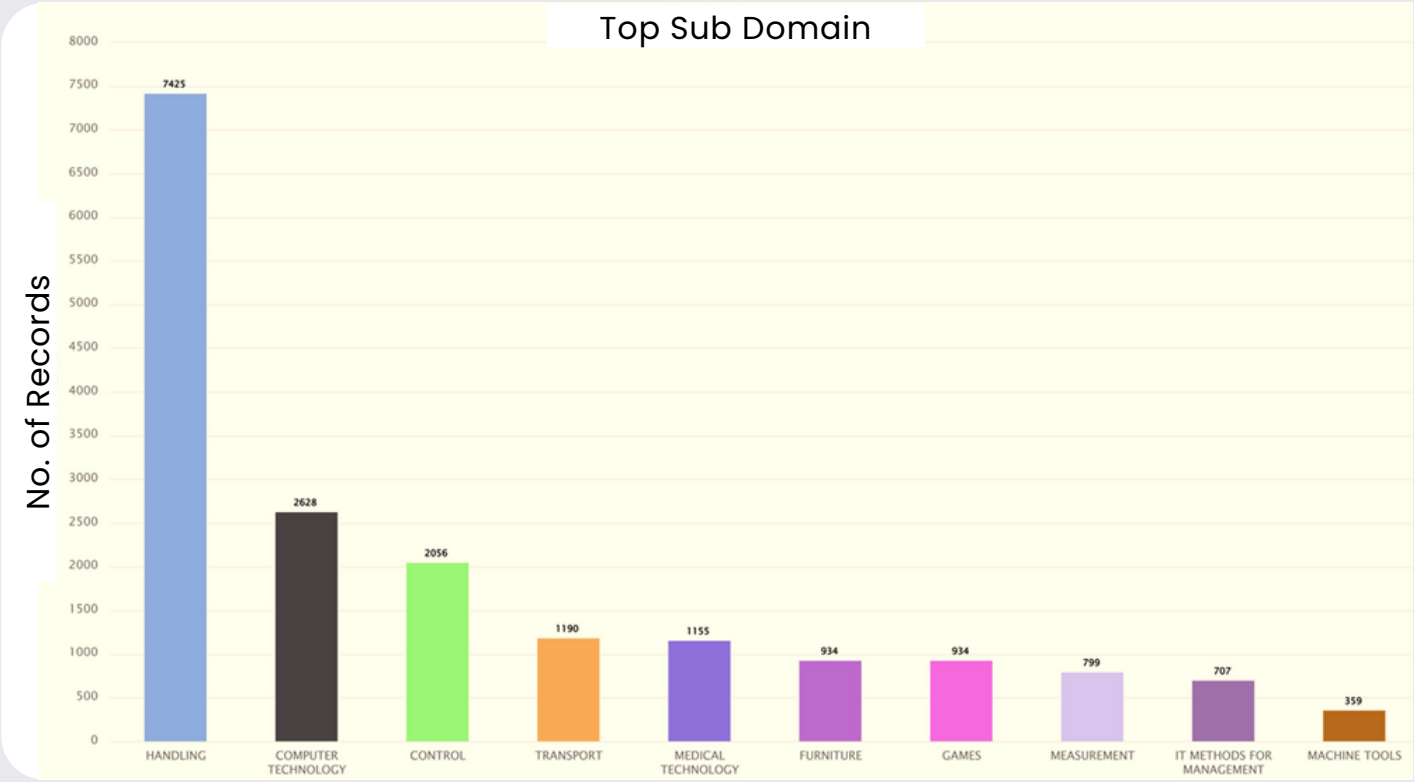


IP INSIGHTS

On Humanoid Robot

Patent Trends on HUMANOID ROBOTS

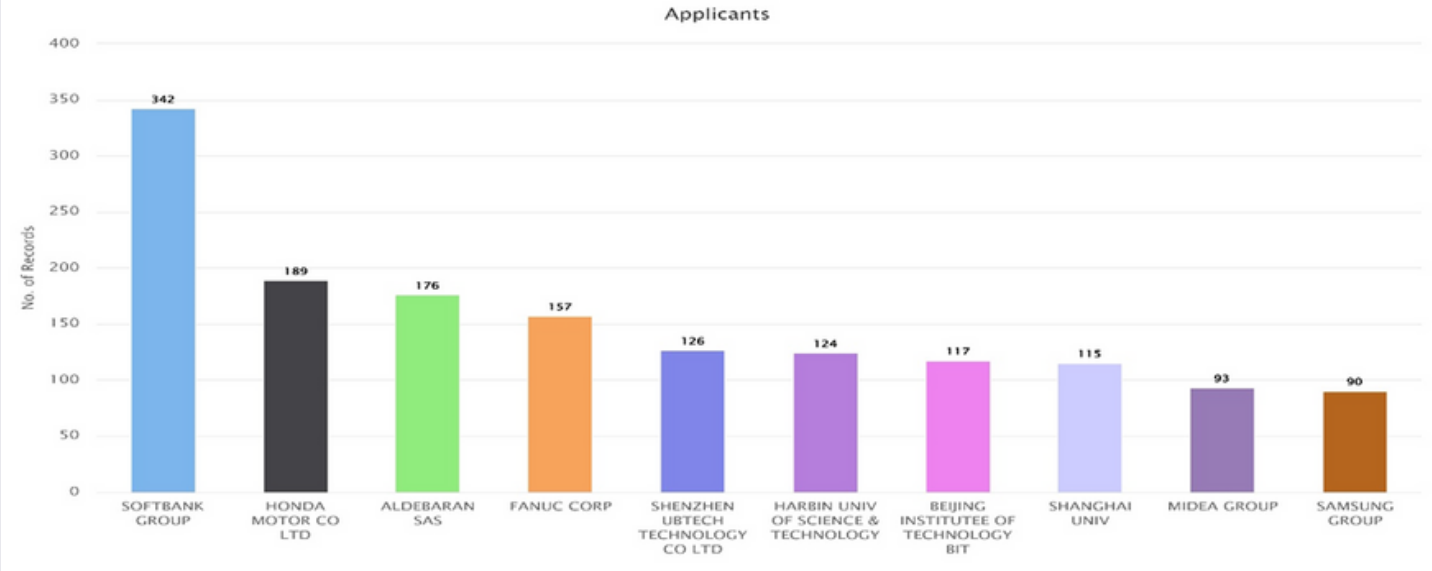




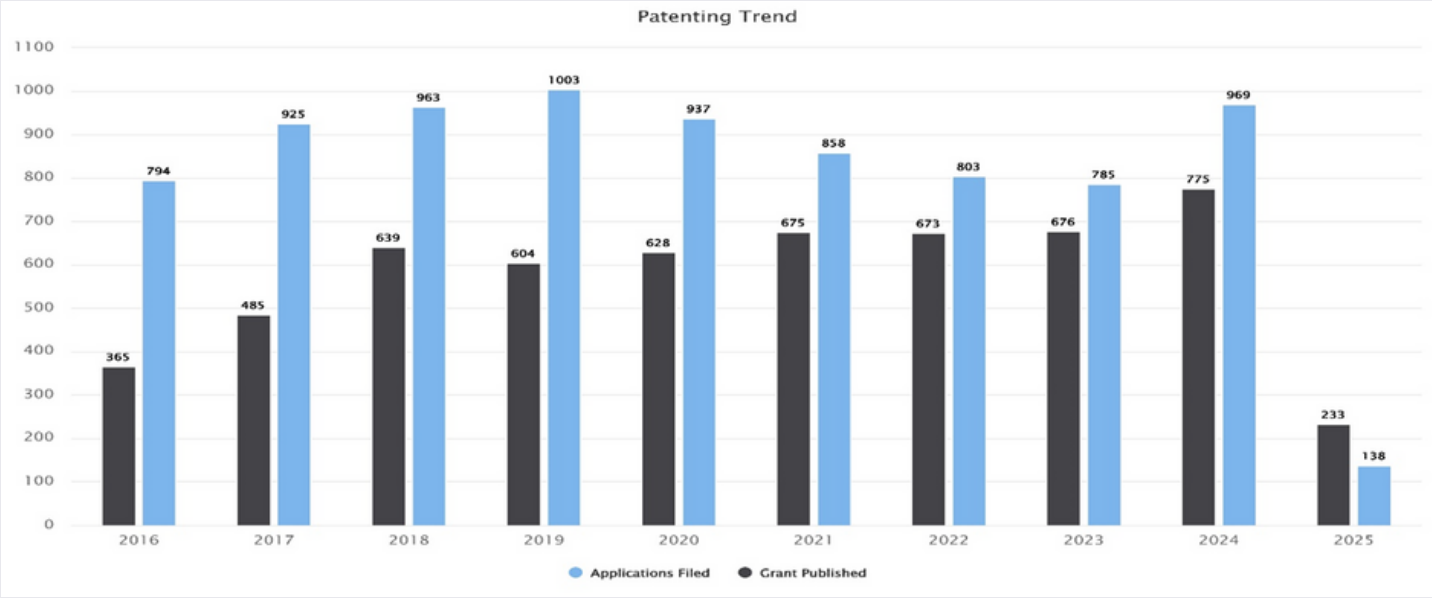
IP INSIGHTS

On Humanoid Robot

PATENT TRENDS ON HUMANOID ROBOTS



The patent [WO2024/080225](), assigned to **SoftBank** Group unveils a control system for humanoid robots that adapts posture and movement in real time, enabling effective collaboration with humans in industrial settings.



The patent [US20240424663A1](), assigned to **HONDA MOTORS**, SoftBank reveals a system enabling robot-mediated physical interaction between humans by coordinating force and motion data with prioritized constraints across robot parts.

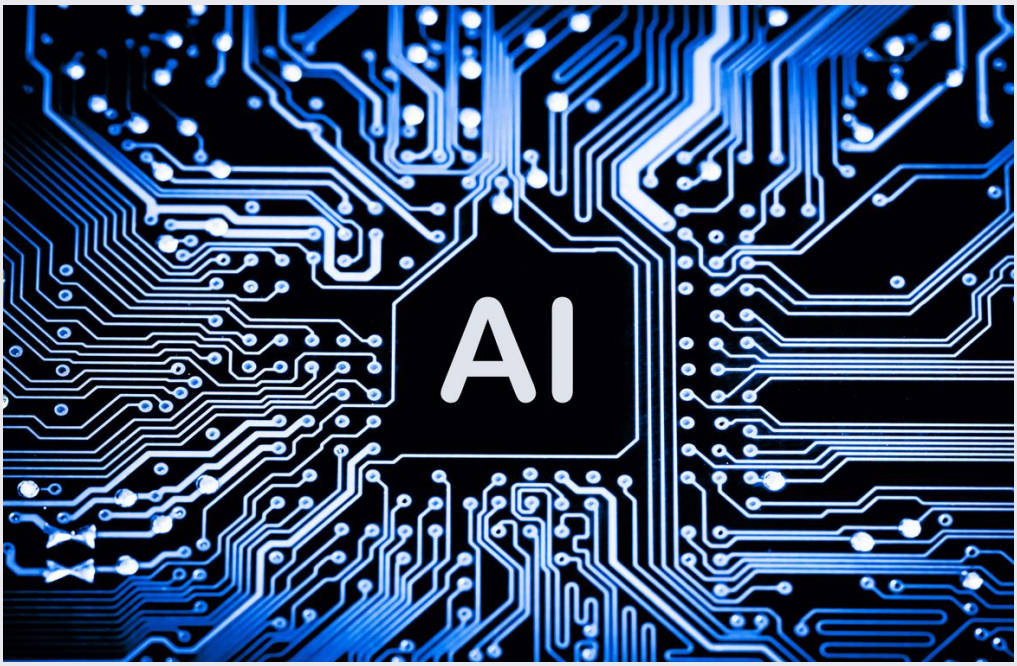
IP NEWS

WTO REJECTS EU CLAIMS IN INTELLECTUAL PROPERTY DISPUTE WITH CHINA

- WTO panel rejected the EU's claims that China violated intellectual property rules.
- EU failed to prove China breached specific WTO IP provisions, despite showing China allows Anti-Suit Injunctions (ASI).
- Panel found no unfair or inconsistent legal practices by Chinese courts.
- China violated WTO transparency rules by not publishing a key judicial decision.
- China also failed to respond to some EU information requests.
- EU plans to appeal through the Multi-Party Appeal Arbitration Arrangement.
- China acknowledged the appeal and pledged to follow relevant procedures.
- Both sides affirmed support for a rules-based multilateral trading system.

IP NEWS

U.S. COPYRIGHT OFFICE ISSUES HIGHLY ANTICIPATED REPORT ON COPYRIGHTABILITY OF AI-GENERATED WORKS



- U.S. Copyright Office released Part 2 of its AI report, focusing on the copyrightability of AI-generated works.
- Human authorship and creativity remain essential for copyright protection.
- Part 2 analyzes the degree of human contribution needed for AI-assisted works to qualify for copyright.
- The report is part of the Office's 2023 AI initiative to guide registration of AI-involved works.
- Copyright requires originality from a human, not just time and effort.
- Protection is evaluated case-by-case.
- AI-assisted works may be protected if AI is used as a tool, not a substitute, for human creativity.

IP NEWS

FORMER USPTO DIRECTOR IANCU DELIVERS STINGING REBUKE TO ‘DELETE IP LAW’ IDEOLOGY

- Former USPTO Director Andrei Iancu keynoted IPAS 2025 at Dolby Labs, San Francisco.

- Iancu strongly criticized recent political efforts to weaken U.S. intellectual property laws, arguing that such moves could undermine American innovation and give economic and technological advantage to global competitors like China.

- He opened his remarks with a reference to the 250th anniversary of Paul Revere’s midnight ride, using it to illustrate how far communication technology has advanced.

- Cited Paul Revere’s midnight ride to contrast past and present communication speeds.

- “Innovation does not exist in a vacuum,” he stated, emphasizing that technological progress requires deliberate support and protection, not complacency.

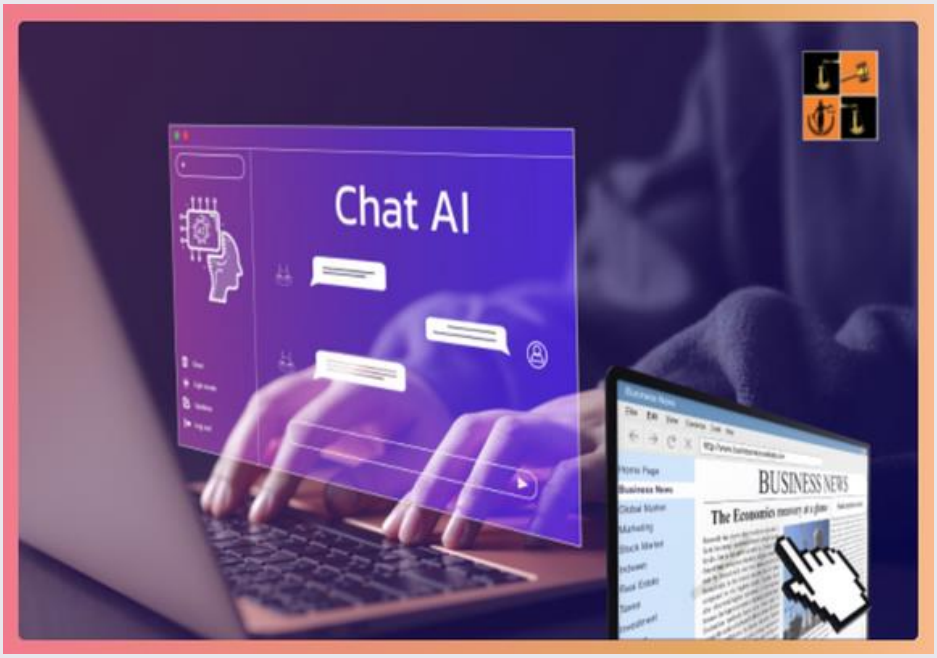
IP NEWS

FEDERAL CIRCUIT REVERSES PTAB WIN FOR APPLE, FINDING BOARD ERRED IN ITS APPLICANT-ADMITTED PRIOR ART ANALYSIS

- CAFC reversed a PTAB ruling that had found Qualcomm's patent claims unpatentable.
- The case stems from Apple's 2018 IPR petitions challenging Qualcomm's U.S. Patent No. 8,063,674.
- PTAB originally ruled claims unpatentable under Section 103 using applicant admitted prior art (AAPA) and a prior patent.
- CAFC previously vacated and remanded, stating AAPA does not qualify as "patents or printed publications" under 35 U.S.C. § 311(b).
- On remand, PTAB maintained its position, treating AAPA as valid prior art for IPR.
- CAFC disagreed, holding AAPA cannot be used as a basis for IPR challenges under Section 103.

IP NEWS

CHATGPT IN THE COPYRIGHT SOUP: NEWS MEDIA OUTLETS FILE LAWSUITS AGAINST OPENAI FOR COPYRIGHT INFRINGEMENT



- Five major Canadian media outlets sued OpenAI for copyright infringement, seeking potentially billions in damages.
- The lawsuit follows similar actions by The New York Times and other U.S. media companies.
- Media claim OpenAI "scraped" their content without permission and profited from it without compensation.
- OpenAI has not yet formally responded but argues its use qualifies as “fair dealing” under copyright law.
- Legal experts note that scraping may not equal copying, but it may still violate fair dealing.
- The media companies also allege OpenAI bypassed anti-scraping protections and breached website terms of service.

IP NEWS

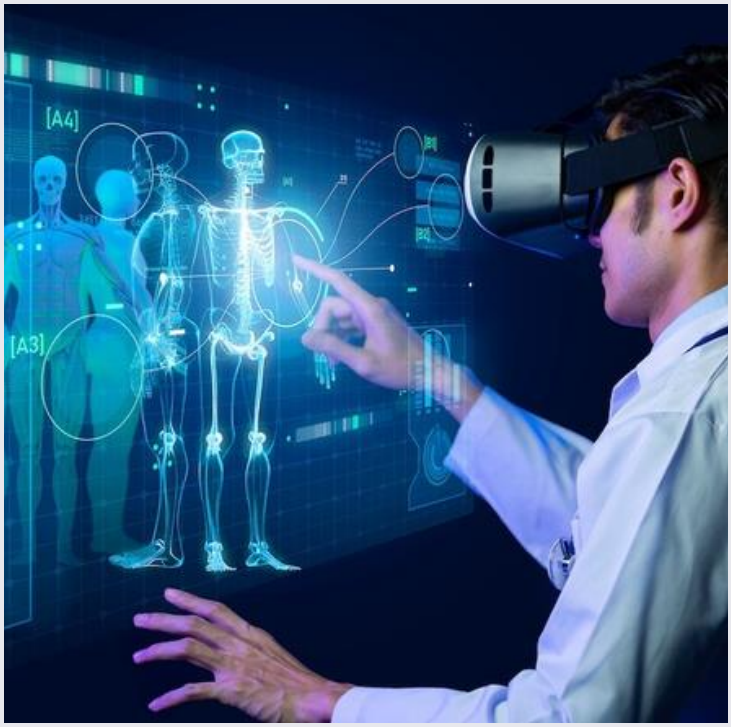
TRADEMARKDISPUTE: MONSTER ENERGY WINS INTERIM INJUNCTION AGAINST SHREE PARVATI FITNESS HUB

- Delhi Commercial Court granted an interim injunction in favor of Monster Energy in a trademark case against Shree Parvati Fitness Hub.
- Defendants were restrained from using "Monster" branding for food and protein supplements.
- Monster Energy alleged infringement through use of terms like "Monster Series" and "Monster Energy Fuel."
- Court recognized Monster as the prior adopter with Indian trademark rights since 2006.
- Similar names and green-black packaging were found likely to confuse consumers.
- Jurisdiction in Delhi was upheld due to the online availability of the defendant's products.
- Court acknowledged Monster Energy's global reputation and distinctive branding, including the claw-like "M" and green-on-black design.

TECHNOLOGY THEMES

DXGPT, AN AI-DRIVEN TOOL TO AID HEALTHCARE WORKERS IN DIAGNOSING AND PLANNING TREATMENTS.

- Microsoft launched DxGPT, an AI tool to assist healthcare professionals with diagnosis and treatment planning.
- Designed to support, not replace, doctors by enhancing decision-making accuracy and efficiency.
- Uses medical data to assess symptoms, analyze patient history, and suggest diagnoses.
- Its future impact depends on global adoption and integration into healthcare practices.



ONEMEDNET AND PROTEGE PARTNER TO ADVANCE THE FUTURE OF AI-DRIVEN HEALTHCARE WITH REAL-TIME, MULTIMODAL DATA

ONEMEDNET

- OneMedNet partnered with Protege to provide real-time access to multimodal patient data for AI developers.
- Data includes medical imaging, ECGs, EEGs, and more—beyond standard electronic health records.
- Aims to improve AI model accuracy and adaptability for better patient outcomes.
- OneMedNet's iRWD™ platform sources data from over 1,400 healthcare sites.
- Supports innovation in areas like rare diseases, oncology, and cardiology.

TECHNOLOGY THEMES

ECLINICALWORKS AND SUNOH.AI EMPOWER BEHAVIORAL HEALTH COUNSELORS AT FQHC TO FOSTER DEEPER PATIENT INTERACTIONS

- HOPE Community Medicine in East Texas is using Sunoh.ai, an AI-powered medical scribe from eClinicalWorks.
- Integrated with their EHR system, it streamlines documentation, especially in behavioral health.
- Enables counselors to focus more on patient interaction and decision-making.
- Helped HOPE serve more patients without reducing care quality.
- eClinicalWorks views this as a major step in using AI to enhance healthcare efficiency and engagement.

DAXTRA BRINGS AI-POWERED RECRUITMENT EXPERTISE TO BECKER'S HEALTHCARE CHRO + WORKFORCE FORUM

- Healthcare CHROs face staffing challenges amid burnout and a shrinking talent pool.
- Daxtra launches TalentFlow, an AI hiring platform, at Becker's Healthcare CHRO Forum.
- TalentFlow streamlines sourcing, screening, and engagement for clinical and non-clinical roles.
- Built for speed and scalability to improve hiring efficiency and quality.

TECHNOLOGY THEMES

TURNER IMAGING SYSTEMS ACCELERATES AI-POWERED MEDICAL IMAGING REVOLUTION THROUGH NVIDIA CONNECT PROGRAM

- Turner Imaging Systems joined NVIDIA's Connect program to enhance portable X-ray devices with AI and 3D imaging.
- Will use NVIDIA's AI and edge computing for real-time, on-device image analysis and reconstruction.
- Enables instant, high-precision diagnostics at the point of care.
- Improves accuracy, speeds up workflows, and enhances patient care.
- Supports TIS's goal to deliver faster, smarter, and more accessible mobile imaging solutions globally.

INFINITUS LAUNCHES FIRST TRUSTED VOICE AI AGENTS FOR HEALTHCARE

- Infinitus Systems launched voice AI agents for patients and providers, enabling secure, 24/7 medical conversations.
- Combines LLMs, a real-time knowledge graph, and post-call AI reviews to ensure accuracy and prevent misinformation.
- Built with SOC 2 and HIPAA compliance to protect patient data and ensure trust.

GLANCE @EFFECTUAL

GLOBAL
LEGAL ASSOCIATION

GLOBAL LEGAL ASSOCIATION

The Global Legal Association has successfully concluded its annual conference this February, bringing together over 250 legal professionals from more than 100 leading corporations and law firms.

The conference served as a platform for thought leadership and insightful discussions on key legal trends, covering a diverse range of topics such as arbitration, litigation, modern mergers and acquisitions (M&A), and litigation funding. Experts from various fields shared their perspectives, fostering meaningful dialogue on the evolving legal landscape.

With engaging panel discussions and networking opportunities, the event reaffirmed its role as a crucial forum for industry professionals to collaborate, exchange ideas, and shape the future of legal practice.

For more details on the event and future initiatives

SCAN THE CODE

GLANCE @EFFECTUAL

GLOBAL
LEGAL ASSOCIATION

6TH GLA ARBITRATION & LITIGATION MALAYSIA 2025

The Global Legal Association is thrilled to announce its upcoming flagship event, the GLA Arbitration & Litigation Conference 2025 – Malaysia Edition, scheduled for May 26th-27th, 2025.

This premier conference is expected to bring together over 250 industry leaders, including Heads of Litigation, General Counsels, Litigation Managers, Arbitration Heads, ADR Professionals, Chief Dispute Resolution Officers, Risk & Compliance Experts, Data Privacy Managers, Legal Attorneys, Directors, and Partners from top law firms.

The event will serve as a key platform for addressing operational challenges and exploring innovative solutions in the legal and dispute resolution landscape. Attendees can expect insightful discussions, expert panels, and networking opportunities designed to shape the future of arbitration and litigation.
Stay tuned for further details and registration information.

GET IN TOUCH

The sum of human ingenuity and expertise that powers us.

Human interactions that drive innovation.

EffectUal Services

Intelligence That Matters

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