

Journal of the AI Universe

Daily AI News Updates · 26 October 2026 · Curated by Dr.P.R.K.Varma

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110 headlines in 40 categories, 01-50 · Each item: headline, link, source, date and the source's reliability label. Read the full story at the source.

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01-14 Industries & Sectors

02 AI Agriculture

- [LeafXNet: A Lightweight Explainable Model With Integrated Attention Mechanism for Fruit Leaf Disease Detection](#) Plant direct · 22 Oct 2026 · Peer-reviewed
- [Simultaneous Multiconstituent Quantification in Maize Kernels Using Near-Infrared Hyperspectral Imaging and Bidirectional Deep Learning](#) SSRN · 25 Oct 2026 · Preprint

03 AI Defence

- [Machine Learning Reveals Controls on Heavy Metal Distribution in War-Affected Soils of Eastern Ukraine](#) Environmental pollution (Barking, Essex 1987) · 24 Oct 2026 · Peer-reviewed

04 AI Healthcare

- [Deep-learning-based electrode action potential mapping from annotation-free unipolar electrograms for substrate characterization in atrial fibrillation](#) Nature – cardiology subject feed · 25 Oct 2026 · Primary source
- [Lunit and Summit Therapeutics Announce Agreement to Apply AI-powered SCOPE IO Platform for Tumor Microenvironment Analysis in Immuno-Oncology Development](#) PR Newswire (Medical Equipment) · 24 Oct 2026 · Company release
- [Artificial Intelligence Versus Physician Decision-Making in Acute Heart Failure: A Comparative Evaluation of Four Contemporary AI Systems](#) European Heart Journal - Digital Health · 20 Oct 2026 · Peer-reviewed
- [AI-powered optical coherence tomography shows similar performance to intravascular ultrasound for plaque burden quantification: head-to-head benchmark study against histopathology of native coronary arteries](#) European heart journal. Digital health · 12 Oct 2026 · Peer-reviewed

Headlines only, not medical advice.

05 AI Finance

- [AI delivers 'zero financial payoff' to most companies, Apollo economist says](#) TechCrunch · 25 Oct 2026 · Established press
- [Building crypto portfolios with agentic AI](#) Frontiers in artificial intelligence · 8 Oct 2026 · Peer-reviewed
- [Market Wisdom versus Academic Research: Evidence from Chinese Stock Markets](#) SSRN · 25 Oct 2026 · Preprint

Headlines only, not financial advice.

09 AI Architecture

- [Mapping artificial intelligence \(AI\) technologies, capability domains, and digital systems across construction project lifecycle stages: an expert-validated framework from Rwanda](#) SSRN · 25 Oct 2026 · Preprint

10 AI Engineering

- [A multi-source earth observation and artificial intelligence framework for unsupervised water-use anomaly screening in Mediterranean agriculture](#) Nature – engineering subject feed · 25 Oct 2026 · Primary source
- [Adaptive active learning and metaheuristic-optimized transformer framework for robust intrusion detection in software-defined networks](#) Nature – engineering subject feed · 25 Oct 2026 · Primary source
- [Multi-scale vision transformer model with UAV-based hyperspectral imagery for early identification of pine wilt disease infected trees](#) Nature – engineering subject feed · 25 Oct 2026 · Primary source
- [Attention specialized multi-view vision transformer for physics interpretable rolling element bearing fault diagnosis](#) Nature – engineering subject feed · 25 Oct 2026 · Primary source
- [Revealing time-regime-dependent defect formation pathways in perovskite single crystals through physics-informed machine learning](#) Physical chemistry chemical physics PCCP · 23 Oct 2026 · Peer-reviewed
- [HGTO: A Unified Graph-Based Physics-Informed Formulation for Structural Topology Optimization](#) SSRN · 25 Oct 2026 · Preprint

11 AI Robotics

- [Teradyne Robotics partners with Sereact to scale physical AI in retail and logistics](#) Robotics Business Review · 25 Oct 2026 · Trade press
- [WiP: Diffusion-Assisted Video Configuration and Resource Management for UAV Surveillance](#) Proceedings of the 28th Annual International Conference on Mobile Computing And Networking · 21 Oct 2026 · Peer-reviewed

12 AI Energy

- [WiP: Predictive auto-scaling for cloud microservices: multi-signal load forecasting and empirical evaluation](#) Proceedings of the 28th Annual International Conference on Mobile Computing And Networking · 21 Oct 2026 · Peer-reviewed
- [Discovery of germanium-based hybrid perovskites with high photovoltaic performance with machine-learning](#) RSC advances · 22 Oct 2026 · Peer-reviewed

13 AI Transportation

- [Forecasting demand at newly commissioned public EV chargers: ramp-up dynamics and the optimism of pseudo cold-start evaluation](#) SSRN · 25 Oct 2026 · Preprint
- [Prediction of hole-edge stress distributions around circular web openings in transverse beams of Ro-Ro ship vehicle decks: A Vierendeel informed spectral surrogate](#) SSRN · 25 Oct 2026 · Preprint

14 AI Manufacturing

- [Next-Generation Friction Stir Additive Manufacturing: Emerging Technologies and Machine Learning for Process Excellence](#) Journal of visualized experiments JoVE · 23 Oct 2026 · Peer-reviewed
- [An AI-Driven Framework for Directed Self-Assembly Toward Design-Technology Co-Optimization](#) Advanced science (Weinheim, Baden-Wurttemberg, Germany) · 22 Oct 2026 · Peer-reviewed

15-20 People & Life Stages

15 AI Kids

- [The Sleep-Wake Classification Performance of Pediatric-Trained Machine Learning Algorithms for Raw Accelerometer Data](#) Sleep · 24 Oct 2026 · Peer-reviewed
- ['Let's work alongside it': healthcare professionals' perspectives of generative AI in supporting care at home in paediatric rheumatology](#) EULAR rheumatology open · 19 Oct 2026 · Peer-reviewed

16 AI Geriatric

- [A Methodological Framework for a Large Language Model Virtual Companion for Older Adults at Risk of Social Isolation](#) Journal of visualized experiments JoVE · 23 Oct 2026 · Peer-reviewed
- [Modelling the risk of conversion from mild cognitive impairment to Alzheimer's disease using machine learning](#) Journal of education and health promotion · 30 Sep 2026 · Peer-reviewed

17 AI Psychology

- [Assessing Suicide Risk Reduction in the Interval Before Death by Suicide Using Natural Language Processing](#) The Journal of clinical psychiatry · 16 Oct 2026 · Peer-reviewed
- [CART machine learning peeling pathways for anxiety and depression severity classification in population screening](#) Global epidemiology · 7 Oct 2026 · Peer-reviewed

Headlines only, not medical advice.

18 AI Education

- [BITS Pilani reshapes its UG curriculum to prepare students for the AI era](#) Indian Express education · 25 Oct 2026 · Established press
- [Ethical boundaries to detecting deepfakes: NCERT introduces 20-hour AI module for classes 9-12](#) (The Hindu) · 25 Oct 2026 · Established press
- [The structural pathways from AI attitude to AI literacy among university students: considering the serial mediators of AI self-efficacy and AI motivation](#) Frontiers in psychology · 8 Oct 2026 · Peer-reviewed
- [Team-based learning and its impact on clinical reasoning in medical education: A review and the unexplored role of artificial intelligence](#) Journal of education and health promotion · 30 Sep 2026 · Peer-reviewed

20 AI Sports & Fitness

- [Determining the Level of Reaction to a Moving Object in Combat Sports Athletes Using a Composite Index and Machine Learning: A Cross-Sectional Methodological Study](#) Journal of functional morphology and kinesiology · 18 Oct 2026 · Peer-reviewed
- [Application of Artificial Intelligence and Surface Electromyography in the Assessment of Quadriceps Neuromuscular Fatigue and Functional Risk of Knee Injury in Professional Basketball Players: A Pilot Study](#) Journal of functional morphology and kinesiology · 1 Oct 2026 · Peer-reviewed

21-29 Culture & Belief

22 AI Mythology

- [Grok releases the first seven minutes of its AI-generated 'Odyssey'](#) TechCrunch · 26 Oct 2026 · Established press

23 AI Music & Arts

- [Anthropic sued for allegedly using 274 Elvis Presley songs to train AI models](#) The Guardian (AI) · 25 Oct 2026 · Established press

25 AI Languages & Translation

- [Automated terminology enhancement for domain-specific translation using large language models](#) Nature – language & linguistics subject feed · 25 Oct 2026 · Primary source
- [Multilingual evaluation of a large language model-based primary care chatbot](#) JAMIA open · 23 Oct 2026 · Peer-reviewed
- [Continuance intention toward AI-driven mHealth apps: an extended expectation confirmation model based on a cross-sectional study of young Chinese adults](#) Frontiers in public health · 8 Oct 2026 · Peer-reviewed

28 AI Marketing & Advertising

- [AI-assisted IVF company websites: a content analysis of marketing claims, information quality, legal and ethical issues](#) Human reproduction open · 30 Sep 2026 · Peer-reviewed

29 AI Gaming & Immersive Worlds

- [OpenAI paused frontier AI training for 11 days after a model reached the internet](#) Mixed (XR/AI) · 25 Oct 2026 · Trade press

30-35 Science

30 AI Research & Innovation

- [Emergence of diffusion models from associative memory through memorization and generalization](#) Nature Communications · 25 Oct 2026 · Peer-reviewed
- [A decoupled perception-control training pipeline for vision-based deep reinforcement learning, with cross-domain and cross-reward transfer extensions](#) MethodsX · 11 Oct 2026 · Peer-reviewed

31 AI Space & Cosmos

- [Neighbours is being recut into a microdrama focused on Margot Robbie – and her co-stars aren't happy](#) The Guardian (AI) · 25 Oct 2026 · Established press
- [Bias characteristics and estimation of the FORMOSAT-7/COSMIC-2 radio occultation bending angle in the lower troposphere with a machine learning algorithm](#) GPS solutions · 23 Oct 2026 · Peer-reviewed

32 AI Biotechnology

- [Designing rigid protein fiducials to visualize GPCR conformational states](#) Nature Communications · 24 Oct 2026 · Peer-reviewed
- [CardioCLIP: sequential multimodal prediction of echocardiographic abnormalities and natriuretic peptide elevation from electrocardiogram and chest radiographs](#) European heart journal. Digital health · 1 Oct 2026 · Peer-reviewed

33 AI Neuroscience

- [Emergence of diffusion models from associative memory through memorization and generalization](#) Nature – computational neuroscience subject feed · 25 Oct 2026 · Primary source
- [Independent Validation of the volBrain CognitiveTree Automated MRI Pipeline in Alzheimer's Disease Diagnosis](#) Clinical anatomy (New York, N.Y.) · 23 Oct 2026 · Peer-reviewed
- [Interpretable Machine Learning Model Based on Radiomic Features of Hippocampal Subfields for Classifying Zoster-associated Pain](#) Brain research bulletin · 24 Oct 2026 · Peer-reviewed

34 AI Environment

- [Multi-Scale Causal Inference and Scenario Prediction for Carbon Emissions from Energy Consumption in the Pearl River Delta Urban Agglomeration](#) Environmental research · 24 Oct 2026 · Peer-reviewed
- [Influence of landslide inventory representation and land cover configuration on landslide susceptibility mapping: a comparative machine learning analysis from the Taslidere Catchment \(Türkiye\)](#) Environmental monitoring and assessment · 24 Oct 2026 · Peer-reviewed

35 AI Quantum Computing

- [Machine learning-assisted noise characterization and entanglement verification in superconducting qubits](#) Frontiers in artificial intelligence · 8 Oct 2026 · Peer-reviewed

36-41 AI Tech Stack

36 AI Semiconductors

- [Neural Networks Speed 3nm Nanosheet SPICE Simulation \(TU Munich\)](#) Semiconductor Engineering · 26 Oct 2026 · Trade press
- [Big Tech is cashing in on AI while the rest of corporate America sees no financial returns](#) Tom's Hardware · 25 Oct 2026 · Established press
- [Nvidia discusses \\$2,000-per-GPU annual fee for software that 'runs agents on AI factories'](#) Tom's Hardware · 25 Oct 2026 · Established press
- [NVIDIA expands Kazakhstan AI infrastructure with Firebird](#) EE News Europe · 25 Oct 2026 · Trade press
- [Nvidia eyes converting old nuclear plants into massive AI data centers](#) Tom's Hardware · 25 Oct 2026 · Established press
- [Cybersecurity bounty hunter says Samsung TVs use AI to record audio and screenshots for ads](#) Tom's Hardware · 25 Oct 2026 · Established press
- [Aluminum Scandium Nitride \(AlScN\) for Advanced Devices: Physical Mechanisms and Emerging Applications](#) Advanced materials (Deerfield Beach, Fla.) · 22 Oct 2026 · Peer-reviewed
- [Quantized Analog Inference Hardware Enabled by MoS2-Hf1-xZrxO2 FeFET Synapses](#) Advanced science (Weinheim, Baden-Wurttemberg, Germany) · 22 Oct 2026 · Peer-reviewed

37 AI Foundation Models & Assistants

- [To make artificial intelligence morally good, tech cos turn to religion](#) Business Standard – technology · 25 Oct 2026 · Established press
- [Google's AI personalisation could mean more targeted ads based on user data](#) Indian Express – technology · 25 Oct 2026 · Established press
- [Nvidia open-sources Flora to make robot video labeling 125x cheaper than GPT-6 Astra](#) The Decoder · 25 Oct 2026 · Trade press
- [Anthropic co-founder Jack Clark moves his prediction for self-improving AI forward to 2027](#) The Decoder · 25 Oct 2026 · Trade press
- [Tech Layoffs 2026: Job cuts near 2 lakh globally as big tech like Microsoft, Google, Oracle, Meta & more pivot to AI](#) Mint – technology · 25 Oct 2026 · Established press
- [Anthropic says one AI agent beats many subagents now that models can handle complexity alone](#) The Decoder · 25 Oct 2026 · Trade press
- [As US and China form AI blocs, countries increasingly torn between them](#) Business Standard – technology · 25 Oct 2026 · Established press
- [UK's AI safety institute finds Mythos 5 kept targeting real people despite warnings](#) Indian Express – technology · 25 Oct 2026 · Established press
- [Robustness Gap of Large Language Models in Nephrology](#) Journal of nephrology · 23 Oct 2026 · Peer-reviewed
- [AI Brown and AI Koditex: LLM-generated corpora comparable to human-written corpora of English and Czech texts](#) Language Resources and Evaluation · 25 Oct 2026 · Peer-reviewed

38 AI Coding & Developer Tools

- [Google ML Drift Accelerates On-Device AI Inference Across Diverse GPUs](#) InfoQ · 25 Oct 2026 · Trade press
- [Is Kubernetes ready for AI agents?](#) The New Stack · 25 Oct 2026 · Trade press

39 AI Cloud & Data Centres

- [The power behind AI: Data centers drive the demand for qualified electricians](#) Data Center Dynamics · 25 Oct 2026 · Trade press
- [CFMoE: Cache-Friendly Mixture of Experts Model Serving System on Edge Devices](#) Proceedings of the 28th Annual International Conference on Mobile Computing And Networking · 21 Oct 2026 · Peer-reviewed

40 AI Telecom & Connectivity

- [WiP: Accelerating LLM Inference for RAN Control via Speculative Decoding](#) Proceedings of the 28th Annual International Conference on Mobile Computing And Networking · 21 Oct 2026 · Peer-reviewed
- [Noise-aware quantum federated learning for NISQ IoT edge computing: Trainability, communication-accuracy trade-offs, and noise-reliability-weighted aggregation](#) Future Generation Computer Systems · 25 Oct 2026 · Peer-reviewed

41 AI Consumer Devices & Wearables

- [The hottest AI wearables and gadgets you should know about](#) TechCrunch · 25 Oct 2026 · Established press
- [r/opensource just banned AI, non-English speakers, and more](#) The Verge · 25 Oct 2026 · Established press
- [When AI glasses could be a worthy headphones replacement](#) Engadget · 25 Oct 2026 · Established press
- [I canceled Google AI Plus after the downgrade, but I'm still using Gemini](#) Android Authority · 25 Oct 2026 · Trade press
- [Are people relying too heavily on AI to evaluate their fitness, and could wearables be promoting unhealthy eating habits? I spoke to a leading sports dietitian to find out](#) Tom's Guide · 25 Oct 2026 · Established press
- [Apple @ Work: The browser is the biggest gap in your AI governance strategy](#) 9to5Mac · 24 Oct 2026 · Trade press
- [I got Gemini and ChatGPT to argue about which is the best phone, and the results are in](#) Android Authority · 24 Oct 2026 · Trade press
- [Machine Learning Applications for Wearable Sensor Data in Tennis and Padel: A Systematic Review of Movement Recognition, Performance Monitoring, and Emerging Injury-Related Applications](#) Journal of functional morphology and kinesiology · 29 Sep 2026 · Peer-reviewed
- [ExoMem: OS-Governed Memory for Local Large-LLM Inference on Mobile Edge Devices](#) Proceedings of the 28th Annual International Conference on Mobile Computing And Networking · 21 Oct 2026 · Peer-reviewed

42-47 Society & Governance

42 AI Cybersecurity

- [PHP2Shell Exploitation Hits Government Entity Amid Global Scanning and Signs of AI-Assisted Hacking](#) The Hacker News · 25 Oct 2026 · Trade press
- [AI coding agents hijacked using AGENTS.md file in Downloads folder](#) BleepingComputer · 25 Oct 2026 · Trade press
- [Former Unit 8200 Officers Raise \\$34 Million for Agentic SecOps Startup Mave](#) SecurityWeek · 25 Oct 2026 · Trade press
- [OpenAI AI Agents Demonstrate VM Escapes and Secret Cross-Sandbox Communication](#) The Hacker News · 25 Oct 2026 · Trade press
- [CyberShield analytics: SHAP-guided stacking ensembles for organizational risk resilience](#) Frontiers in artificial intelligence · 9 Oct 2026 · Peer-reviewed
- [Demo: Rolling-Shutter Wrist Micro-Movement Sensing for Privacy-Preserving Emotion Recognition](#) Proceedings of the 28th Annual International Conference on Mobile Computing And Networking · 21 Oct 2026 · Peer-reviewed

43 AI Governance

- [NIFTEM-K Hosts India's First AI x Food Tech Hackathon, 'Hack the Fork'](#) PIB India (all releases, English) · 25 Oct 2026 · Primary source
- ['Extremely disappointed': WA government seeks reimbursement from Deloitte over flawed university report](#) The Guardian (AI) · 25 Oct 2026 · Established press
- [Digital information manipulation, AI readiness, and security outcomes in Africa: evidence from Africa's most populous countries](#) Frontiers in sociology · 8 Oct 2026 · Peer-reviewed
- [Liability for rogue behaviors of agentic AI](#) Telecommunications Policy · 25 Oct 2026 · Peer-reviewed

44 AI Social Impact

- [Machine Learning Models for Predicting Tuberculosis Treatment Adherence, Nonadherence, and Loss to Follow-up in Low- and Middle-income Countries: A Preferred Reporting Items for Systematic Reviews and Meta-Analyses 2020-compliant Systematic Review and Illustrative Meta-analysis](#) Annals of African medicine · 23 Oct 2026 · Peer-reviewed
- [From Construct-Blind to Construct-Aware: How Construct Representation Shapes LLM-Based Assessment of L2 Vocabulary in Writing](#) SSRN · 25 Oct 2026 · Preprint

45 AI Ethics & Safety

- [Predicting pandemics, predicting people: the ethical limits of AI-powered public health surveillance](#) Frontiers in public health · 8 Oct 2026 · Peer-reviewed
- [Introduction to Fundamental AI and Ethical Considerations: A Didactic and Interactive Case-Based Session for Preclerkship Medical Students](#) MedEdPORTAL the journal of teaching and learning resources · 23 Oct 2026 · Peer-reviewed

46 AI Smart Cities & Real Estate

- [Beyond Pure Models: The Structural Evolution of Urban Growth Prediction for Planning Practice - From Pure Methods to AI-Driven Multi-Hybrid Approaches](#) SSRN · 25 Oct 2026 · Preprint
- [Artificial Intelligence Development and Breakthrough Innovation in Chinese Cities: Evidence from Patent Citations](#) SSRN · 25 Oct 2026 · Preprint

48-50 Future & Frontier

48 AI AGI & ASI

- [A neuro-inspired computational framework for AGI: predictive coding, active inference and free energy minimisation](#) Frontiers in human neuroscience · 8 Oct 2026 · Peer-reviewed

49 AI Consciousness

- [From narrative generation to interpretive stabilization: generative AI and the mechanism of ethical understanding](#) Nature – philosophy subject feed · 25 Oct 2026 · Primary source

50 AI Future Frontiers

- [Western Australia seeks refund from Deloitte over flawed AI-aided report](#) The Next Web · 25 Oct 2026 · Trade press
- [US Treasury moves to curb AI, chip and biotech deals in China and Russia](#) The Next Web · 25 Oct 2026 · Trade press
- [DeepSeek and MiniMax cleared to take AI models abroad, state media says](#) The Next Web · 25 Oct 2026 · Trade press

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