

# AI FORUM NEWSLETTER

[HTTPS://AIFORUM.MY.CANVA.SITE/LINKTREE](https://aiforum.my.canva.site/linktree)

Vong Sokcheavy  
Say Vithya Arthur



Friday, November 1, 2024  
ISSUE NO. 9



**Prompt:** A lively celebration of Cambodia's National Game 4 unfolds at a spacious outdoor venue, framed by the stadium skyline. The Torch Relay circles the stadium as a large crowd gathers, sitting and cheering in joyous support.

**Photo Credit:** Imagine.art

01/06

## 1. Generative AI will soon generate tonnes of e-waste, finds study

Source: [Khmer Times](#)

Source: Freepik



Generative AI, now central to tasks like social media management and finance, is driving a surge in electronic waste (e-waste) as tech companies frequently replace hardware in vast data centers. A study projects that AI could generate up to 2.3 million tonnes of e-waste annually by 2030. Strategies like extending hardware life and recycling could cut e-waste by 86%, though challenges around data security and outdated tech due to export restrictions persist. This rise in AI-driven e-waste adds to a global e-waste crisis, which reached 62 million tonnes in 2022 and is still growing rapidly.

Reference:

Khmer Times. (2024, October 30). Generative AI will soon generate tonnes of e-waste, finds study. *Khmer Times*. [https://www.khmertimeskh.com/501582203/generative-ai-will-soon-generate-tonnes-of-e-waste-finds-study/#google\\_vignette](https://www.khmertimeskh.com/501582203/generative-ai-will-soon-generate-tonnes-of-e-waste-finds-study/#google_vignette)

## 2. Industry leaders back open-source AI definition

Source: [AI News](#)

The Open Source Initiative (OSI) has introduced the first Open Source AI Definition (OSAID), a framework outlining criteria for AI systems to be considered open-source. OSAID aligns with OSI's principles and requires AI systems to provide four core freedoms: usage, study, modification, and sharing. It requires complete data information, source code, and model parameters for skilled individuals to recreate the system. Supported by groups like Mozilla's AI team, the Digital Public Goods Alliance, and EleutherAI, OSAID aims to refine open-source standards in AI.

Reference:

Daw, R. (2024, October 29). Industry leaders back open-source AI definition. *AI News*. <https://www.artificialintelligence-news.com/news/industry-leaders-back-open-source-ai-definition/>

Source: Freepik





### 3. MIT breakthrough could transform robot training

Source: [AI News](#)

Source: Freepik

MIT researchers have developed Heterogeneous Pretrained Transformers (HPT), a breakthrough method that trains robots faster and more cost-effectively while enhancing their adaptability to new environments and tasks. Unlike traditional methods, HPT combines diverse data from multiple sources, creating a shared “language” for generative AI models. Lead researcher Lirui Wang emphasized that robotics faces not just data shortages, but challenges from varied domains and robot types. By integrating camera images, language instructions, and proprioception, HPT outperformed traditional methods by over 20%, even in unfamiliar tasks. The team envisions a universal robot “brain” that could adapt to any robot without extra training, potentially transforming robotics much like language models have for AI.

Reference:

Daw, R. (2024, October 28). MIT breakthrough could transform robot training. *AI News*. <https://www.artificialintelligence-news.com/news/mit-breakthrough-could-transform-robot-training/>

## Past Events

**Buddhist AI Ethics Seminar Series 3**  
**Buddhism and AI: Reality, Ethics, Governance**  
October 25, 2024 | 2:00 PM-5:00 PM | CamTech University  
Moderator: Prof. Dr. Chhann Khatthi  
Panelists: Ven. Dr. San Phum, Prof. Dr. Dr.h.c. Wolfgang Drechsler, Dr. Kiet Pheng, Dr. Sorneth Chhann, Dr. Pritam Sanyal  
Keynote Speaker: Prof. Dr. Dr.h.c. Wolfgang Drechsler  
Professor of Governance, TallTech, Estonia; Honorary Professor, University College London; Adjunct Professor, Universitas Indonesia

**AI Conversations**  
“AI and Digital Transformation in Cambodian Industries”  
October 31, 2024 | 2:00 PM-5:00 PM | CamTech University  
Moderator: Mr. Say Vithya Arthur  
Speaker: Dr. Chen Sovann  
Director of Science, Technology & Innovation Data Management Department, Ministry of Industry, Science, Technology & Innovation (MISTI)

**25th October:**

The 3rd Buddhist AI Ethics Seminar:  
“Buddhism and AI: Reality, Ethics,  
and Governance”

**Location:** CamTech University

**31st October:**

AI Conversations Episode #3: “AI and  
Digital Transformation in Cambodian  
Industries”

**Find us on:** [YouTube](#)

#### 4. From audio to audiovisual: Author uses AI for innovative storytelling

Source: [The Phnom Penh Post](#)



Source: Freepik

Cambodian author Meysan Sotheary is set to release a video podcast called "The 00:07", which merges AI with her storytelling style. The podcast is a suspenseful sci-fi narrative set in 2028 at Amatak Hospital, featuring a viral outbreak and a young robotics expert named Vuth. Originally planned as a novel, the story has evolved into a technology-driven narrative with AI visuals. Sotheary sees AI as integral to her storytelling and plans to release an audiovisual version in 2028. She believes young tech-savvy protagonists represent the future of storytelling.

Reference:

Raksmey, H. (2024, October 25). From audio to audiovisual: Author uses AI for innovative storytelling. *The Phnom Penh Post*. <https://www.phnompenhpost.com/lifestyle/from-audio-to-audiovisual-author-uses-ai-for-innovative-storytelling>

#### 5. How AI will fuel ASEAN's trillion-dollar digital economy

Source: [Kyndryl](#)

Southeast Asian banks are embracing AI to modernize, secure digital payments, and stay competitive in the ASEAN economic landscape. Singapore leads the way, while Malaysia, Indonesia, and Thailand follow suit. Generative AI is automating customer services, optimizing operations, and helping banks meet data security regulations. However, a robust roadmap is needed to handle customer data responsibly. Banks are measuring AI-related energy consumption to align with sustainability goals. Hybrid IT solutions and cloud architecture provide scalability and cost-efficiency amid regulatory demands.



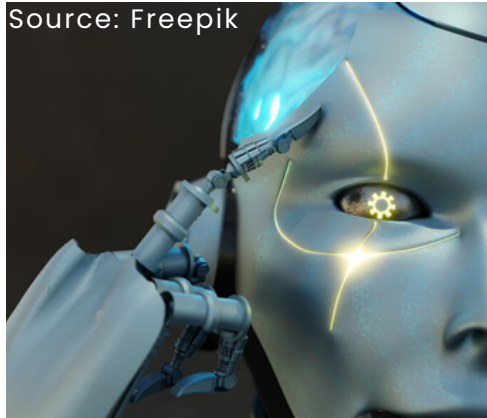
Source: Freepik

Reference:

Kyndryl. (2024, October 28). How AI will fuel ASEAN's trillion-dollar digital economy. *Kyndryl*. <https://www.kyndryl.com/mx/es/about-us/news/2024/10/how-asean-banks-are-embracing-ai>

## 6. New HackerRank Research Highlights How GenAI is Changing Software Development

Source: [Inside AI News](#)



HackerRank's AI Skills Report shows that developers are increasingly using generative AI (GenAI) to boost productivity, with 55% sourcing GenAI tools independently and 83% reporting faster project completion. Despite some restrictions, 20% of developers still adopt GenAI, highlighting the need for an AI strategy. Organizations prioritize upskilling over hiring for GenAI, focusing on core computer science skills. AI is also expanding beyond tech, with 22% of manufacturing and 18% of financial services companies hiring for AI skills. HackerRank CEO Vivek Ravisankar emphasized AI's role in enhancing collaboration between humans and AI.

Reference:

Editorial Team. (2024, October 30). New HackerRank Research Highlights How GenAI is Changing Software Development. *Inside AI News*. <https://insideainews.com/2024/10/30/new-hackerrank-research-highlights-how-genai-is-changing-software-development/>

## 7. Using AI, historians track how astronomy ideas spread in the 16th century

Source: [Science News](#)

Historians using AI have traced the spread of astronomical knowledge across Europe in the 1500s, challenging the "lone genius" view of scientific revolutions. The study shows that astronomical ideas, notably from textbooks printed in Wittenberg, spread widely and shaped diverse fields. By analyzing thousands of astronomy texts, AI revealed trends and shifts, highlighting the role of a broader scientific community rather than just iconic figures like Copernicus. Researchers emphasize that while AI is a powerful tool, human insight remains crucial for interpreting historical data.



Reference:

Grossman, L. (2024, October 30). Using AI, historians track how astronomy ideas spread in the 16th century. *Science News*. <https://www.sciencenews.org/article/artificial-intelligence-astronomy-ai>

## References

1. Khmer Times. (2024, October 30). Generative AI will soon generate tonnes of e-waste, finds study. *Khmer Times*.  
[https://www.khmertimeskh.com/501582203/generative-ai-will-soon-generate-tonnes-of-e-waste-finds-study/#google\\_vignette](https://www.khmertimeskh.com/501582203/generative-ai-will-soon-generate-tonnes-of-e-waste-finds-study/#google_vignette)
2. Daw, R. (2024, October 29). Industry leaders back open-source AI definition. *AI News*. <https://www.artificialintelligence-news.com/news/industry-leaders-back-open-source-ai-definition/>
3. Daw, R. (2024, October 28). MIT breakthrough could transform robot training. *AI News*. <https://www.artificialintelligence-news.com/news/mit-breakthrough-could-transform-robot-training/>
4. Raksmeay, H. (2024, October 25). From audio to audiovisual: Author uses AI for innovative storytelling. *The Phnom Penh Post*.  
<https://www.phnompenhpost.com/lifestyle/from-audio-to-audiovisual-author-uses-ai-for-innovative-storytelling>
5. Kyndryl. (2024, October 28). How AI will fuel ASEAN's trillion-dollar digital economy. *Kyndryl*. <https://www.kyndryl.com/mx/es/about-us/news/2024/10/how-asean-banks-are-embracing-ai>
6. Editorial Team. (2024, October 30). New HackerRank Research Highlights How GenAI is Changing Software Development. *Inside AI News*.  
<https://insideainews.com/2024/10/30/new-hackerrank-research-highlights-how-genai-is-changing-software-development/>
7. Grossman, L. (2024, October 30). Using AI, historians track how astronomy ideas spread in the 16th century. *Science News*.  
<https://www.sciencenews.org/article/artificial-intelligence-astronomy-ai>