

This automatically generated digest highlights trending topics and recent papers.

## ## Trending Topics

Topic ID	Recent	Baseline	Ratio
3	26	0	27.00
7	18	0	19.00
4	15	0	16.00
5	10	0	11.00
9	10	0	11.00
1	7	0	8.00
6	6	0	7.00
8	6	0	7.00

## ## Topic 3

**\*\*Synopsis:\*\*** This problem, with widespread applications in science and engineering, is proved to be NP-hard.

Published	Title	Authors	Category
2025-08-21	Discovering Hidden Algebraic Structures via Transformers with Rank-Aware Beam GRPO	Yuxing	Machine Learning
2025-08-21	Intern-S1: A Scientific Multimodal Foundation Model	Lei Bai, Zhongrui Cai, Maosong Cao, Yuxing	Machine Learning
2025-08-21	LiveMCP-101: Stress Testing and Diagnosing MCP-enabled Agents on Challenging Queries	Yuxing	Machine Learning
2025-08-21	Language-Guided Tuning: Enhancing Numeric Optimization with Textual Feedback	Yuxing	Machine Learning
2025-08-21	Neural Robot Dynamics	Jie Xu, Eric Heiden, Irethayo Akinola, Dieter Fox, Miles Macklin, Yuxing	Robotics
2025-08-21	Dissecting Tool-Integrated Reasoning: An Empirical Study and Analysis	Yufeng Zhao, Jun	Machine Learning
2025-08-21	Active Learning for Neurosymbolic Program Synthesis	Celeste Barnaby, Qiaochu Chen, R	Machine Learning
2025-08-21	Response and Prompt Evaluation to Prevent Parasocial Relationships with Chatbots	Emm	Human-Computer Interaction
2025-08-21	End-to-End Agentic RAG System Training for Traceable Diagnostic Reasoning	Qiaoyu Zh	Machine Learning
2025-08-21	Measuring the environmental impact of delivering AI at Google Scale	Cooper Elsworth, Ke	AI Ethics

## ## Topic 7

**\*\*Synopsis:\*\*** The paper highlights the discontinuity from previous research and the scarcity of accessible

Published	Title	Authors	Category
2025-08-21	Scaling Group Inference for Diverse and High-Quality Generation	Gaurav Parmar, Or Pata	Machine Learning
2025-08-21	CineScale: Free Lunch in High-Resolution Cinematic Visual Generation	Haonan Qiu, Ning	Machine Learning
2025-08-21	Visual Autoregressive Modeling for Instruction-Guided Image Editing	Qingyang Mao, Qi Ca	Machine Learning
2025-08-21	Waver: Wave Your Way to Lifelike Video Generation	Yifu Zhang, Hao Yang, Yuqi Zhang, Y	Machine Learning
2025-08-21	A 16.28 ppm/ $^{\circ}\text{C}$ Temperature Coefficient, 0.5V Low-Voltage CMOS Voltage Referen		Electronics
2025-08-21	EcomMMM: Strategic Utilization of Visuals for Robust Multimodal E-Commerce Models	X	Machine Learning
2025-08-21	WorldWeaver: Generating Long-Horizon Video Worlds via Rich Perception	Zhiheng Liu, Xu	Machine Learning

| 2025-08-21 | StreamMem: Query-Agnostic KV Cache Memory for Streaming Video Understanding | Yanl  
| 2025-08-21 | Stemming -- The Evolution and Current State with a Focus on Bangla | Abhijit Paul, Mashia  
| 2025-08-21 | Position Bias Mitigates Position Bias:Mitigate Position Bias Through Inter-Position Knowled

## ## Topic 4

**\*\*Synopsis:\*\*** The nine model category structures on the category of sets. We compute the longitudinal an

Published	Title	Authors	Category
2025-08-21	Quantum cohomology of variations of GIT quotients and flips	Zhaoxing Gu, Song Yu, Tony	
2025-08-21	Skyrmion Lattice Order Controlled by Confinement Geometry	Raphael Gruber, Jan Rothörn	
2025-08-21	PyKirigami: An interactive Python simulator for kirigami metamaterials	Qinghai Jiang, Gary	
2025-08-21	The nine model category structures on the category of sets	Omar Antolín-Camarena, Tobia	
2025-08-21	Orientation dependent anomalous Hall and spin Hall currents at the junctions of altermagne		
2025-08-21	Intrinsic Incompatibility: Why Static Droplets Cannot Exist in Cahn-Hilliard-Navier-Stokes Sy		
2025-08-21	Gaussian-Based Periodic Grand Canonical Density Functional Theory with Implicit Solvation		
2025-08-21	Classification of Magnetism and Altermagnetism in Quasicrystals	Zhi-Yan Shao, Chen Lu,	
2025-08-21	One-loop determinants in AdS<sub>3</sub> supergravity with extended supersymmetry	Ilija Rakic,	
2025-08-21	The Liouville model in the  $L^1$  phase: coupling and extreme values	Michael Hofstetter, C	

## ## Topic 5

**\*\*Synopsis:\*\*** We find significant overlap among the causal variables identified by linear and non-linear me

Published	Title	Authors	Category
2025-08-21	Bayesian Hierarchical Methods for Surveillance of Cervical Dystonia Treatments	D. Baidoo	
2025-08-21	Spatial Super-Infection and Co-Infection Dynamics in Networks	Alyssa Yu, Laura P. Schap	
2025-08-21	The Approach of Sliced Inference in Systems of Stochastic Differential Equations with Com		
2025-08-21	Large-dimensional Factor Analysis with Weighted PCA	Zhongyuan Lyu, Ming Yuan	stat.M
2025-08-21	Non-parametric Causal Discovery for EU Allowances Returns Through the Information Imba		
2025-08-21	Conditional cross-fitting for unbiased machine-learning-assisted covariate adjustment in ran		
2025-08-21	Fast approximate Bayesian inference of HIV indicators using PCA adaptive Gauss-Hermite		
2025-08-21	Joint Classification of Haze and Dust Events Using Factorial Hidden Markov Model Framew		
2025-08-21	Amortized In-Context Mixed Effect Transformer Models: A Zero-Shot Approach for Pharmaco		
2025-08-21	Through-the-Cycle PD Estimation Under Incomplete Data -- A Single Risk Factor Approach		

## ## Topic 9

**\*\*Synopsis:\*\*** In generative models, the most natural OOD score is the data likelihood. The accuracy of ve

Published	Title	Authors	Category
2025-08-21	Fine-grained Multi-class Nuclei Segmentation with Molecular-empowered All-in-SAM Model		
2025-08-21	Probability Density from Latent Diffusion Models for Out-of-Distribution Detection	Joonas J	
2025-08-21	Tutorial on the Probabilistic Unification of Estimation Theory, Machine Learning, and Gener		

| 2025-08-21 | Communication Efficient LLM Pre-training with SparseLoCo | Amir Sarfi, Benjamin Thérien,  
| 2025-08-21 | Hessian-based lightweight neural network for brain vessel segmentation on a minimal training  
| 2025-08-21 | Towards a 3D Transfer-based Black-box Attack via Critical Feature Guidance | Shuchao Pan,  
| 2025-08-21 | Weakly-Supervised Learning for Tree Instances Segmentation in Airborne Lidar Point Clouds  
| 2025-08-21 | Correct-By-Construction: Certified Individual Fairness through Neural Network Training | Ru  
| 2025-08-21 | Label Uncertainty for Ultrasound Segmentation | Malini Shivaram, Gautam Rajendrakumar  
| 2025-08-21 | GRASPED: Graph Anomaly Detection using Autoencoder with Spectral Encoder and Decoder