Program

2nd International Conference on

ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

📅 **June 09-11, 2025, Seattle, WA**

June 12, 2025, Online

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DoubleTree by Hilton Hotel Seattle Airport
18740 International Blvd
Seattle, WA

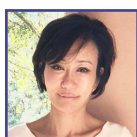|	
07:30	**Registrations & Badge Pick-up**
08:20	**Introduction**

Keynote Presentations

Chair: Zhong Chen, Southern Illinois University, IL, USA

08:30-09:00
Topology for AI
Gunnar Carlsson, Stanford University and BluelightAI, CA, USA

09:00-09:30
GenAI Trajectory: From Democratization to the Average Trap to Model Collapse
Ming-Hui Huang, National Taiwan University, Taiwan
Roland T. Rust, University of Maryland, MD, USA

09:30-10:00
Safe SuperIntelligence
Craig Kaplan, iQ Company, CA, USA

10:00-10:30
Do We Stand a Chance? On Rapid Advancement of Generative AI
David Doermann, University at Buffalo, NY, USA

10:30-11:00 — **Coffee Break & Networking** — **@Northwest Foyer**

11:00-11:30
Death Technologies and Digital Afterlife: An Ethical Perspective
Russell W. Belk, York University, Canada

11:30-12:00
AI Agents Renaissance: Personalization, Proactivity, and Privacy
Chirag Shah, University of Washington, WA, USA

Oral Presentations

Artificial General Intelligence (AGI) | Generative AI

12:00-12:20
SensorChat: Interacting with Multimodal Sensors in Daily Life using Natural Language
Xiaofan Yu, The University of California, CA, USA

12:20-12:40
Generative AI Versus Artificial General Intelligence
Henry Hexmoor, Southern Illinois University, IL, USA

12:40-12:45 — **Group Photo**

12:45-13:40 — **Lunch & Networking** — **@Northwest 2**

13:40-14:00
How Does Critical Batch Size Scale in Pre-training?
Hanlin Zhang, Harvard University, MA, USA

PROGRAM

14:00-14:20	**The AI content revolution in E-commerce: Boosting Sales, Tracking Ethics, and shaping Tomorrow's Shopping**
	Aditi Madhusudan Jain, Amazon, WA, USA

14:20-14:40	**Evaluating a ReAct-based Agent for Agricultural Planning**
	Karanbir Singh, Salesforce, San Francisco, CA

Machine Learning | Natural Language Processing

Chair: Henry Hexmoor, Southern Illinois University, IL, USA

14:40-15:00	**Prediction of Mental Health Disorder: An Identification of Precise and Reliable Machine Learning Algorithm**
	Dawood Qamar, The Islamia University of Bahawalpur, Pakistan

15:00-15:20	**Advanced Strategies for Traffic Management and Safety in Cooperative ITS with NGSIM**
	Sultan Ahmed Almalki, Najran University, Saudi Arabia

15:20-15:40	**Towards Interpretable, Adaptive, and Robust Online Machine Learning for Data Streams with Multiple Streaming Natures**
	Zhong Chen, Southern Illinois University, IL, USA

15:40-16:00	**Training Strategies for Remote Sensing Object Detection**
	Moongu Jeon, Gwangju Institute of Science & Technology, South Korea

16:00-16:20	**Concave-Regularized Neural Networks for High-dimensional Feature Selection**
	Bin Luo, Kennesaw State University, GA, USA

16:20-16:40	**Advancing Arabic NLP: Evaluating Large Language Models for Emotion Detection in Digital Communication**
	Mohammed Alshahrani, Najran University, Saudi Arabia

16:40-17:40   Poster Presentations & Networking Drinks

P-01	**Artificial Intelligence Adoption and it's Effect on Online Retail Marketing Performance in Emerging Markets**
	Takunda Victor Chivizhe, University of the Witwatersrand, South Africa

P-02	**Application to Convolutional Neural Network for Chirality Prediction Modeling**
	Seung Hwan Park, Chungnam National University, South Korea

End of Day-1

Plenary Presentation

Chair: Jianyuan Ni, Juniata College, PA, USA

09:00-09:40

Recent Triumphs and Future Opportunities for Computer-assisted Connoisseurship of Fine Art Paintings and Drawings

David G. Stork, Stanford University, CA, USA

Keynote Presentation

09:40-10:10

Active Physical Intelligence: The First Curiosity-driven LearningParadigm Designed for the Physical World

Tara Javidi, The University of California, CA, USA

Oral Presentations

AI in Medicine, AI Infra, Tools & Applications | Cybersecurity | Computer Science Artificial Neural Networks & Architecture

Chair: Cao Thang Bui, California State University, Monterey Bay, CA, USA

10:10-10:30	**Cross-Modal Knowledge Distillation for Wearable Sensor-based Human Action Recognition** Jianyuan Ni, Juniata College, PA, USA

10:30-11:00 · · · · · **Coffee Break & Networking** · · · · · **@Northwest Foyer**

11:00-11:20	**A Predictive Model of Anomaly Tracking for an Enterprise Monitoring System: Representation of Causal Relations in a Directed Acyclic Graph** Suhail Mahmood, Providence Health & Services, WA, USA
11:20-11:40	**Machine Learning vs Traditional Statistical Methods for Predicting Postpartum Hemorrhage** Oluwafunmilola Deborah Awe, State University of Campinas, Brazil
11:40-12:00	**The Application of Artificial Intelligence in Media Production: Trends, Challenges, and Future Directions** Zixuan Liang, Harrisburg University of Science and Technology, PA, USA
12:00-12:20	**Lightweight and Optimized Deep Learning Architectures for Mobile Visual Computing on Edge Platforms** Yongbeom Cho, Deep ET, South Korea
12:20-12:40	**Skin Lesion Classification Using Hybrid Models and Innovative Preprocessing Techniques** Shantanu Awasthi, Missouri Southern State University,MO, USA

12:40-13:40 · · · · · **Lunch & Networking** · · · · · **@Northwest 2**

Keynote Presentation

Chair: Yongbeom Cho, Deep ET, South Korea

13:40-14:10

Mutual Reinforcement of LLM Dialogue Synthesis and Summarization Capabilities

Raviteja Vemulapalli, Apple, WA, USA

14:10-14:40
Generative AI in Action: Scaling Solutions Beyond the Pilot Phase
Ananya Ghosh Chowdhury, Microsoft, WA, USA

AI in Medicine | Cybersecurity | Computer Science

14:40-15:00   **Enhancing Access Control Research with AI-Generated Policies**
Cao Thang Bui, California State University, Monterey Bay, CA, USA

15:00-15:20   **From Scan to Scam: Machine Learning for Malicious QR Code Detection Attacks**
Tamirat Abegaz, University of North Georgia, GA, USA

15:20-15:40   **Ensuring Translation Quality with AI LQA**
Konstantinos Karageorgos, Welocalize, Greece

15:40 - 16:00   **Immersive Learning in Biology Education: Enhancing Student Engagement Through AR/VR Technology**
Mohammed Alqahtani, Najran University, Saudi Arabia

Coffee | End of Day-2

Oral Presentations

AI Algorithms | Robotics | AI Infra, Tools & Applications | AI Algorithms | Robotics

Chair: Yuchen Cui, The University of California, CA, USA

09:00-09:20	**Explaining Model Decisions Using Decision Intelligence** Steven Moss, Mendit.AI Inc, WA, USA
09:20-09:40	**The Ann Arbor Architecture for Agent-Oriented Programming** Wei Dong, Ann Arbor Algorithms, MI, USA
09:40-10:00	**Interactive Robot Learning from Human Teachers** Yuchen Cui, The University of California, CA, USA
10:00-10:20	**Equitable Privacy-Preserving Machine Learning Algorithms** Selvarajah Mohanarajah, The University of North Carolina at Pembroke, NC, USA
10:20-10:40	**Controllable AI Through Peer-Ranked Data** Ahmed Rashad, Perle, CA, USA
10:40-11:00	**But Who's Watching The Machines? Using AI To Test GenAI-Writted Code** Yunhao Jiao, TestSprite, WA, USA

11:00   Lunch | In-Person Departures   @Northwest 2

Virtual Sessions

11:15	**AV Check & Introduction**

Keynote Presentations

Chair: Ranita Ganguly, Delaware State University, DE, USA

11:30-12:00
OpenThinker: Post-training a Reasoning Model with Open Data
Alexandros G Dimakis, University of California, Berkeley, CA, USA

12:00-12:30
When AI Meets Power Grids: Bridging Algorithms, Uncertainty, and Decision-making
Yu Zhang, University of California, Santa Cruz, CA, USA

Oral Presentations

Machine Learning | Artificial General Intelligence | Generative AI
AI in Medicine | AI Infra, Tools & Applications

12:30-12:50	**Context-Based Fake News Detection using Graph Based Approach : A COVID-19 Use-case** Chandrashekar Muniyappa, Upgrade Inc., CA, USA
12:50-13:10	**Bridging Technology and Strategy: Advancing Digital Transformation Through Enterprise Architecture and Cloud Innovation** Ali Asghar Mehdi Syed, IMPRIVATA, FL, USA
13:10-13:30	**LangFair: A Framework and Toolkit for Evaluating Bias and Fairness in Large Language Model Use Cases** Dylan Bouchard, CVS Health, MA, USA

13:30-13:40   **Break**

Chair: Krishna Chaganti, S&P GLOBAL, FL, USA	

13:40-14:00	**Advancing AI-Driven Healthcare and Secure Distributed Systems: Real-world Innovations in Automation, Analytics, and Diagnostics** Varun Varma Sangaraju, Cognizant, TX, USA
14:00-14:20	**The Rise of Agentic AI Agents: Reshaping Industries and How** Gautami Nadkarni, Google, NJ, USA
14:20-14:40	**Maximizing ROI and Sustainability in AI Infrastructure: Cost-effective, Energy-efficient Strategies for Modern Data Centers** Prashanthi Matam, DFS Corporate Services LLC, WA, USA
14:40-15:00	**AI Insights and Future Trends for Mobile App Testing** Ranita Ganguly, Delaware State University, DE, USA

End of Day-3

DAY-4 (Virtual)

Thursday, June 12, 2025
Timezone: Pacific Time

Join Zoom Live Stream

https://us06web.zoom.us/j/89201951441?pwd=o7aot3PUwUXJXnncLwiPlOqUiyG9v7.1

Meeting ID: 892 0195 1441
Passcode: 085599

Artificial Neural Networks & Architecture | Natural Language Processing Artificial General Intelligence (AGI) | Machine Learning & Big Data Engineering

Chair: Gautami Nadkarni, Google, NJ, USA	

06:20-06:40	**Neurosymbolic Learning: Opportunities and Challenges** Efthymia Tsamoura, Huawei Labs, United Kingdom
06:40-07:00	**WSSGCN: Wide Sub-stage Graph Convolutional Networks** Chao Wang, China Academy of Railway Sciences Corporation Limited, China
07:00-07:20	**Empowering LLMs with Logical Reasoning: A Comprehensive Survey** Fengxiang Cheng, University of Amsterdam, Netherlands
07:20-07:40	**Looking Beyond the Data: Navigating the Challenges of Biased Samples** Sai Srikanth Gorthy, ByteDance (TikTok), CA, USA
07:40-07:50	**Break**

Keynote Presentations

07:50-08:20
Use of GenAI to Help Author Intelligent Tutoring Systems
Vincent Aleven, Carnegie Mellon University, PA, USA

08:20-08:50
Transforming Scientific Innovation with AI
Max Welling, University of Amsterdam, Neitherlands

Data Science & Big Data Engineering | AI Infra, Tools & Applications Machine Learning | Cybersecurity | Generative AI | Cloud Automation

Chair: Dylan Bouchard, CVS Health, MA, USA	
08:50-09:10	**Leveraging Data Integration and Workforce Analytics to Transform Enterprise Operations** Abdul Jabbar Mohammad, Metanoia Solutions Inc, MI, USA

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09:10-09:30	**Driving Enterprise Security: Leadership in Application Security, Vulnerability Management, and Secure SDLC Implementation across Globa Teams** **Krishna Chaitanya Chaganti**, S&P GLOBAL, FL, USA
09:30-09:50	**Seasoned Data Analyst & Reporting Specialist	Expert in Power BI, SQL, and Data Visualization** **Sangeeta Anand**, Danville, VA, USA
09:50-10:10	**Enterprise Cloud Automation: Modernizing Financial Systems with Scalable Architecture and AI Integration** **Balkishan Arugula**, Hexaware, TX, USA
10:10-10:30	**Navigating the Complex World of InfoSec: A Veteran Consultant's Journey Through Application Security, Risk, and Compliance** **Pavan Paidy**, FINRA, WV, USA
10:30-10:50	**Financial Fraud Detection with Entropy Computing** **Lac Nguyen**, Quantum Computing Inc, NJ, USA
10:50-11:10	**From Thought to Motion: Unifying Agentic 'Brains' and Physical 'Muscles' for End-to-End Embodied Intelligence** **Arit Kumar Bishwas**, PricewaterhouseCoopers, CA, USA

Flash Talks

11:10-11:25	**Context Is All You Need: Efficient Retrieval-augmented Generation for Domain-specific Artificial Intelligence** **Peixi Xiong**, Intel Labs, OR, USA
11:25-11:40	**Embodied AI Agent for Co-creation Ecosystem: Elevating Human-AI Co-creation Through Emotion Recognition and Dynamic Personality Adaptation** **Fernando Jia**, University of California, Berkeley, CA, USA
11:40-11:55	**Active Learning for Abrupt Shifts Change-point Detection via Derivative-aware Gaussian Processes** **Ashley Wu**, Lexington High School, MA, USA
11:55-12:10	**Smart Arabic Text Diacritization and Legal Liability: A Deep Learning Approach** **Mohammed Abu Shquier**, Jerash University, Jordan
12:10-12:25	**Skin Lesion Classification Using Hybrid Models and Innovative Preprocessing Techniques** **Shantanu Awasthi**, Missouri Southern State University,MO, USA
12:25	**Concluding Remarks**

We wish to see you at

AIM-2026

April 2026 | San Francisco, CA