Paper ID	Title	Topic	Oral Time	Poster Day
1	Data-driven Precipitation Nowcasting Using Satellite Imagery	Climate	Feb 27, 2:30-3:45	Feb 27
5	Large-scale School Mapping using Weakly Supervised Deep Learning for Universal School Connectivity	Education	Feb 27, 2:30-3:45	Feb 27
60	Towards Efficient and Intelligent Laser Weeding: Method and Dataset for Weed Stem Detection	Agriculture and Food	N/A	Feb 27
18	Generalizable Disaster Damage Assessment via Change Detection with Vision Foundation Model	Disaster Mitigation and Response	Feb 28, 9:30-10:45	Feb 28
71	To measure or not: a cost-sensitive, selective measuring environment for agricultural management decisions with reinforcement learning	Agriculture and Food	N/A	Feb 27
141	Leveraging Computer Vision and Visual LLMs for Cost-Effective and Consistent Street Food Safety Assessment in Kolkata India	Agriculture and Food	N/A	Feb 27
36	Evaluating Index-based Treatment Allocation in Underresourced Communities	Public Health	Feb 28, 2:30-3:45	Feb 28
373	Fields of The World: A Machine Learning Benchmark Dataset For Global Agricultural Field Boundary Segmentation	Agriculture and Food	N/A	Feb 27
47	Contextual Stochastic Optimization for School Desegregation Policymaking	Education	Feb 28, 11:15-12:30	Feb 28
471	Hybrid Phenology Modeling for Predicting Temperature Effects on Tree Dormancy	Agriculture and Food	N/A	Feb 27
149	SIDE: Socially Informed Drought Estimation Toward Understanding Societal Impact Dynamics of Environmental Crisis	Climate	N/A	Feb 27
278	DroughtSet: Understanding Drought through Spatial-Temporal Learning	Climate	N/A	Feb 27
61	Optimizing Heat Alert Issuance with Reinforcement Learning	Public Health	Feb 28, 9:30-10:45	Feb 28
293	Integrating Multi-Source Data for Long Sequence Precipitation Forecasting	Climate	N/A	Feb 27
52	UrbanVLP: Multi-Granularity Vision-Language Pretraining for Urban Socioeconomic Indicator Prediction	Computational Social Science and Humanities	N/A	Feb 27
170	Component-Level Segmentation for Oracle Bone Inscription Decipherment	Computational Social Science and Humanities	N/A	Feb 27

	Title	Category	Session	Date
249	Cognitive bias and Reassignment: Who can contribute high quality LLM data	Computational Social Science and Humanities	N/A	Feb 27
77	Context in Public Health for Underserved Communities: A Bayesian Approach to Online Restless Bandits	Public Health	Feb 28, 2:30-3:45	Feb 28
413	MotifGPL: Motif-Enhanced Graph Prototype Learning for Deciphering Urban Social Segregation	Computational Social Science and Humanities	N/A	Feb 27
157	Small things brought together: A weak labeling approach for quantifying parking lot occupancy at high frequency without detecting individual cars	Disaster Mitigation and Response	N/A	Feb 28
179	VQLTI: Long-Term Tropical Cyclone Intensity Forecasting with Physical Constraints	Disaster Mitigation and Response	N/A	Feb 28
192	PrecipDiff: Leveraging image diffusion models to enhance satellite-based precipitation observations	Disaster Mitigation and Response	N/A	Feb 28
317	Uncertainty-aware Knowledge Tracing	Education	N/A	Feb 28
99	Predictive Modeling of Homeless Service Assignment: A Representation Learning Approach	Computational Social Science and Humanities	Feb 28, 11:15-12:30	Feb 28
331	From Explanations to Action: A Zero-Shot, Theory-Driven LLM Framework for Student Performance Feedback	Education	N/A	Feb 28
409	Rethinking and Improving Student Learning and Forgetting Processes for Attention based Knowledge Tracing Models	Education	N/A	Feb 28
78	Physics-Guided Foundation Model for Scientific Discovery: An Application to Aquatic Science	Environmental Sustainability	N/A	Feb 27
80	AirRadar: Inferring Nationwide Air Quality in China with Deep Neural Networks	Environmental Sustainability	N/A	Feb 27
103	Multi-Scale Graph Learning for Anti-Sparse Downscaling	Environmental Sustainability	N/A	Feb 27
126	Improving Community-Participated Patrol for Anti-Poaching	Environmental Sustainability	Feb 27, 9:30-10:45	Feb 27
131	FIDLAR: Forecast-Informed Deep Learning Architecture for Flood Mitigation	Disaster Mitigation and Response	Feb 28, 9:30-10:45	Feb 28
133	Fairness Issues and Mitigations in (Differentially Private) Socio-demographic Data Processes	Social Welfare, Justice, Fairness and Equality	Feb 27, 11:15-12:30	Feb 27
134	Bridging the Gap: Enhancing LLM Performance for Low-Resource African Languages with New Benchmarks, Fine-Tuning, and Cultural Adjustments	Low and Middle-Income Countries / Underserved Communities	Feb 27, 2:30-3:45	Feb 27
108	UrbanWaste: In-the-Bin Dataset for Waste Disposal Inspection with Multi-Granularity Hierarchical Labels	Environmental Sustainability	N/A	Feb 27
214	Data Augmentation Approaches for Satellite Imagery	Environmental Sustainability	N/A	Feb 27

493	FoMo: multi-modal, multi-scale and multi-task remote sensing foundation models for forest monitoring	Environmental Sustainability	N/A	Feb 27
501	GIST: Gear Type Identification by Spatiotemporal Trajectory Transformation for Monitoring Fisheries	Environmental Sustainability	N/A	Feb 27
226	Spatial Clustering of Citizen Science Data Improves Downstream Species Distribution Models	Environmental Sustainability	N/A	Feb 27
104	Language Ranker: A Metric for Quantifying LLM Performance Across High and Low-Resource Languages	Low and Middle-Income Countries / Underserved Communities	N/A	Feb 27
205	Multi-OphthaLingua: A Multilingual Benchmark for Assessing and Debiasing LLM Ophthalmological QA in LMICs	Low and Middle-Income Countries / Underserved Communities	N/A	Feb 28
171	The Pitfalls of ``Security by Obscurity'' -- And What They Mean for Transparent AI	Philosophical and Ethical Issues	Feb 27, 11:15-12:30	Feb 27
274	Reference-Based Post-OCR Processing with LLM for Precise Diacritic Text in Historical Document Recognition	Low and Middle-Income Countries / Underserved Communities	N/A	Feb 27
73	Dual-View Interaction-Aware Lane Change Prediction for Autonomous Driving	Mobility / Transportation	N/A	Feb 28
187	Sim911: Towards Effective and Equitable 9-1-1 Dispatcher Training with an LLM-Enabled Simulation	Disaster Mitigation and Response	Feb 28, 9:30-10:45	Feb 28
168	ml4xcube: Machine Learning Toolkits for Earth System Data Cubes	Natural Sciences	N/A	Feb 27
437	A Denoising Pre-training Framework for Accelerating Novel Material Discovery	Natural Sciences	N/A	Feb 28
204	Constraint-aware Pareto Optimization for Tree-Structured Networks: Addressing Decarbonization Targets with Hydropower Expansion	Environmental Sustainability	Feb 27, 9:30-10:45	Feb 27
487	Dust-Mamba: An Efficient Dust Storm Detection Network With Multiple Data Sources	Natural Sciences	N/A	Feb 27
492	Constraint optimisation approaches for designing group-living captive breeding programmes	Natural Sciences	N/A	Feb 27
114	Cost-Aware Near-Optimal Policy Learning	Other Social Impact	N/A	Feb 28
63	PUBLICSPEAK: Hearing the Public with a Probabilistic Framework	Policy and Social Development	N/A	Feb 28
24	MCAT: Visual Query-Based Localization of Standard Anatomical Clips in Fetal Ultrasound Videos using Multi-Tier Class-Aware Token Transformer	Public Health	N/A	Feb 28
40	Dynamics-based Feature Augmentation of Graph Neural Networks for Variant Emergence Prediction	Public Health	N/A	Feb 28

87	Accessible, At-Home Detection of Parkinson's Disease via Multi-task Video Analysis	Public Health	N/A	Feb 28
95	NaFV-Net: An Adversarial Four-view Network for Mammogram Classification	Public Health	N/A	Feb 28
118	PCR-Test Optimization for Antibiotic Resistance Prediction	Public Health	N/A	Feb 28
181	A Spatio-temporal Cluster-aware Supervised Learning Framework for Predicting County-level Drug Overdose Deaths	Public Health	N/A	Feb 28
212	VidSole: A Multimodal Dataset for Joint Kinetics Quantification and Disease Detection with Deep Learning	Public Health	N/A	Feb 28
215	MarkovType: a Markov Decision Process strategy for Non-invasive Brain-Computer Interfaces Typing Systems	Public Health	N/A	Feb 28
284	Enhancing Vision-Language Models with Morphological and Taxonomic Knowledge: Towards Coral Recognition for Ocean Health	Environmental Sustainability	Feb 27, 9:30-10:45	Feb 27
285	Black-Box Optimization with Implicit Constraints for Public Policy	Policy and Social Development	Feb 28, 11:15-12:30	Feb 28
275	GaraMoSt: Parallel Multi-Granularity Motion and Structural Modeling for Efficient Multi-Frame Interpolation in DSA Images	Public Health	N/A	Feb 28
306	Cross-Temporal-Scale Transformer for Irregular-Time Event Prediction in Clinical Applications	Public Health	N/A	Feb 28
310	Active Geospatial Search for Efficient Tenant Eviction Outreach	Public Health	N/A	Feb 28
328	PersonalizedUS: Interpretable Breast Cancer Risk Assessment with Local Coverage Uncertainty Quantification	Public Health	N/A	Feb 28
358	CUPCase: Clinically Uncommon Patient Cases and Diagnoses Dataset	Public Health	N/A	Feb 28
365	Incongruent Multimodal Federated Learning for Medical Vision and Language-based Multi-label Disease Detection	Public Health	N/A	Feb 28
381	Distribution-Free Uncertainty Quantification in Mechanical Ventilation Treatment: A Conformal Deep Q-Learning Framework	Public Health	N/A	Feb 28
72	Trustworthy and Practical AI for Healthcare: A Guided Deferral System with Large Language Models	Public Health	N/A	Feb 28
137	ScamNet: Toward Explainable Large Language Model-based Fraudulent Shopping Website Detection	Security and Privacy	N/A	Feb 27

338	Learning Production Functions for Supply Chains with Graph Neural Networks	Other Social Impact	Feb 28, 11:15-12:30	Feb 28
145	SRDC: Semantics-based Ransomware Detection and Classification with LLM-assisted Pre-training	Security and Privacy	N/A	Feb 27
35	J\&H: Evaluating the Robustness of Large Language Models under Knowledge-Injection Attacks in Legal Domain	Security and Privacy	N/A	Feb 27
367	How Your Location Relates to Health: Variable Importance and Interpretable Machine Learning for Environmental and Sociodemographic Data	Public Health	Feb 28, 2:30-3:45	Feb 28
220	IOHunter: Graph Foundation Model to Uncover Online Information Operations	Social Networks and Social Media	N/A	Feb 27
259	Pioneering Explainable Video Fact-Checking with a New Dataset and Multi-role Multimodal Model Approach	Social Networks and Social Media	N/A	Feb 27
406	Enhancing Privacy in the Early Detection of Sexual Predators Through Federated Learning and Differential Privacy	Security and Privacy	Feb 27, 11:15-12:30	Feb 27
322	TSGAN: Temporal Social Graph Attention Network for Aggressive Behaviour Forecasting	Social Networks and Social Media	N/A	Feb 27
190	Pre-trained Behavioral Model for Malicious User Prediction	Social Networks and Social Media	N/A	Feb 27
300	Towards Fair Graph Pooling with Group and Individual Awareness	Social Welfare, Justice, Fairness and Equality	N/A	Feb 27
303	KD-MSLRT: Lightweight Sign Language Recognition Model Based on Mediapipe and 3D to 1D Knowledge Distillation	Social Welfare, Justice, Fairness and Equality	N/A	Feb 28
440	Aligning Time-series by Local Trends: Applications in Public Health	Public Health	Feb 28, 2:30-3:45	Feb 28
465	PhishAgent: A Robust Multimodal Agent for Phishing Webpage Detection	Security and Privacy	Feb 27, 11:15-12:30	Feb 27
83	RTP-LX: Can LLMs Evaluate Toxicity in Multilingual Scenarios?	Social Welfare, Justice, Fairness and Equality	N/A	Feb 28
233	Physics-Guided Fair Graph Sampling for Water Temperature Prediction in River Networks	Social Welfare, Justice, Fairness and Equality	N/A	Feb 27
12	Adaptive Multi-faceted Service Capabilities Co-Prediction for Nationwide Terminal Stations in Logistics	Urban Planning	N/A	Feb 28
51	Measuring Fine-Grained Urban Air Temperature with Satellite Imagery	Urban Planning	N/A	Feb 28
407	FAP-CD: Fairness-Driven Age-Friendly Community Planning via Conditional Diffusion Generation	Urban Planning	N/A	Feb 28

505	DivShift: Exploring Domain-Specific Distribution Shifts in Large-Scale, Volunteer-Collected Biodiversity Datasets	Environmental Sustainability	Feb 27, 9:30-10:45	Feb 27