IAAI-24 Schedule
Thursday, February 22
Room 116

8:30 AM -9:30 AM
AAAI-24 Opening Remarks

9:30 AM – 10:45 AM
Session Chair: Nestor Rychtyckyj

Track: Deployed Highly Innovative Applications of AI
16: General Commerce Intelligence: Glocally Federated NLP-Based Engine for Privacy-Preserving and Sustainable Personalized Services of Multi-Merchants

Track: Deployed Highly Innovative Applications of AI
24: Transformer-empowered Multi-modal Item Embedding for Enhanced Image Search in E-Commerce

Track: Emerging Applications of AI
85: Tell Me What Is Good About This Property: Leveraging Reviews For Segment-Personalized Image Collection Summarization

Track: Emerging Applications of AI
91: A Framework for Mining Speech-To-Text Transcripts of the Customer for Automated Problem Remediation

10:45 AM – 11:15 AM
Break

11:15 AM – 12:30 PM
Session Chair: Ted E Senator

Track: Deployed Innovative Tools for Enabling AI Applications
25: A model for estimating the economic costs of computer vision systems that use deep learning

Track: Deployed Highly Innovative Applications of AI
168: A Submodular Optimization Approach to Accountable Loan Approval

Track: Deployed Highly Innovative Applications of AI
111: Check-in Desk Scheduling Optimisation at CDG International Airport

Track: Emerging Applications of AI
116: Multi-Stage Prompting for Next Best Agent Recommendations in Adaptive Workflows

12:30 PM - 2:00 PM
Lunch

2:00 PM – 3:15 PM
Session Chair: Helen Chen

Track: Emerging Applications of AI
155: Optimizing IT FinOps and Sustainability through Unsupervised Workload Characterization

Track: Emerging Applications of AI
106: AutoMixer for Improved Multivariate Time-Series Forecasting on BizITOps Data

Track: Deployed Highly Innovative Applications of AI
140: (Deployed Application) Promoting Research Collaboration with Open Data Driven Team Recommendation in Response to Call for Proposals

Track: Deployed Innovative Tools for Enabling AI Applications
26: Building Higher-Order Abstractions from the Components of Recommender Systems

3:15 PM – 3:45PM
Break

3:45 PM – 5:00 PM
Session Chair: Anthony Palladino

Track: Emerging Applications of AI
170: Symbol Description Reading

Track: Emerging Applications of AI
147: CHRONOS: A Schema-Based Event Understanding and Prediction System

Track: Emerging Applications of AI
137: ETDPC: A Multimodality Framework for Classifying Pages in Electronic Theses and Dissertations

Track: Deployed Highly Innovative Applications of AI
121: Building Conversational Artifacts to Enable Digital Assistant for APIs and RPAs

5:00 PM – 6:00 PM
AAAI Award for AI for the Benefit of Humanity Lecture
Milind Tambe

6:00 PM – 7:00 PM
AAAI-24 Invited Talk
MIchael Bronstein

Friday, February 23

8:30 AM
2024 Robert S. Engelmore Memorial Lecture Award
Raquel Urtasun

9:30 AM – 10:45 AM
Session Chair: Odd Erik Gundersen

Track: Emerging Applications of AI
141: Attention-based Models for Snow-Water Equivalent Prediction

Track: Innovative Inter-disciplinary AI Integration
112: Automated State Estimation for Summarizing the Dynamics of Complex Urban Systems using Representation Learning

Track: Emerging Applications of AI
139: Data-Driven Structural Fire Risk Prediction for City Properties

Track: Deployed Highly Innovative Applications of AI
165: Flood Insights: Integrating Remote and Social Sensing Data for Flood Exposure, Damage, and Urgent Needs Mapping

10:45 AM – 11:15 AM
Break

11:15 AM – 12:30 PM
Session Chair: Sean McGregor

11:15 AM
AI Risk Profiles: A Standards Proposal for Pre-Deployment AI Risk Disclosures
Eli Sherman

11:25 AM
When Your AI Becomes a Target: AI Security Incidents and Best Practices
Kathrin Grosse

11:35 AM
Merging AI Incidents Research with Political Misinformation Research: Introducing the Political Deepfakes Incidents Database
Christina Walker

11:45 AM
AI Evaluation Authorities: A Case Study Mapping Model Audits to Persistent Standards
Arihant Chadda

11:55 AM
Panel: "Application Risk and Safety: What is Required for a Well-Functioning AI Safety Culture?"
* (moderator) Sean McGregor, Digital Safety Research Institute of ULRI, Director of Advanced Test Research
* Ian Eisenberg, Credo AI, Head of AI Governance Research
* Christina P. Walker, Purdue University, Ph.D. Student
* Jesse Hostetler, Digital Safety Research Institute of ULRI, Lead Machine Learning Research Engineer
* Kathrin Grosse, École Polytechnique Fédérale de Lausanne, Postdoctoral Researcher

12:25-12:30 PM
CASMI AI Incidents and Best Practices Paper Award

12:30 PM
Lunch

2:00 PM – 3:15 PM
Session Chair: Jan Seyler

Track: Deployed Highly Innovative Applications of AI
27: The Virtual Driving Instructor: Multi-Agent System Collaborating via Knowledge Graph for Scalable Driver Education

Track: Emerging Applications of AI
20: A Virtual Driving Instructor that Generates Personalized Driving Lessons Based on Student Skill Level

Track: Emerging Applications of AI
43: Improving Autonomous Separation Assurance through Distributed Reinforcement Learning with Attention Networks

3:15 PM – 3:45PM
Break

3:45 PM – 5:00 PM
Session Chair: Kiri Wagstaff

Track: Deployed Highly Innovative Applications of AI
149: DCV2I: A Practical Approach for Supporting Geographers' Visual Interpretation in Dune Segmentation with Deep Vision Models

Track: Emerging Applications of AI
125: Interactive Mars Image Content-Based Search with Interpretable Machine Learning

Track: Deployed Innovative Tools for Enabling AI Applications
118: End-to-end Phase Field Model Discovery Combining Experimentation, Crowdsourcing, Simulation and Learning

5:00 PM – 7:00 PM
AAAI/IAAI 24 Invited Talk
Yann LeCun

AAAI-24 Invited Talk
Elizabeth Spelke

Saturday, February 24

8:30 AM – 9:30 AM
IAAI-24 Invited Talk
Dieter Fox

9:30 AM – 10:45 AM
Session Chair: Helen Chen

Track: Emerging Applications of AI
120: Neural Bookmarks: Information retrieval with deep learning and EEG data

Track: Emerging Applications of AI
142: Redefining the Laparoscopic Spatial Sense: AI-based Intra- and Postoperative Measurement from Stereoimages

Track: Emerging Applications of AI
153: Using Adaptive Bandit Experiments to Increase and Investigate Engagement in Mental Health

Track: Deployed Highly Innovative Applications of AI
158: KAMEL: Knowledge Aware Medical Entity Linkage to Automate Health Insurance Claims Processing

10:45 AM – 11:15 AM
Break

11:15 AM – 12:30 PM
Session Chair: Jan Seyler

Track: Emerging Applications of AI
133: Improving Health Information Access in the World's Largest Maternal Mobile Health Program via Bandit Algorithms

Track: Emerging Applications of AI
144: VeriCompress: A Tool to Streamline the Synthesis of Verified Robust Compressed Neural Networks from Scratch

Track: Emerging Applications of AI
159: TelTrans: Applying Multi-Type Telecom Data to Transportation Evaluation and Prediction via Multifaceted Graph Modeling

Track: Deployed Highly Innovative Applications of AI
107: Some Like It Small: Czech Semantic Embedding Models for Industry Applications

12:30 PM – 2:00 PM
Lunch

2:00 PM – 3:15 PM
Session Chair: Yuhao Chen

Track: Deployed Highly Innovative Applications of AI
33: HiFi-Gas: Hierarchical Federated Learning Incentive Mechanism Enhanced Gas Usage Estimation

Track: Emerging Applications of AI
131: Combining Machine Learning and Queueing Theory for Data-driven Incarceration-Diversion Program Management

Track: Innovative Inter-disciplinary AI Integration
143: A Generalizable Theory-driven Agent-based Framework to Study Conflict-induced Forced Migration

Track: Deployed Highly Innovative Applications of AI
96: IBCA: An Intelligent Platform for Social Insurance Benefit Qualification Status Assessment

3:15 PM - 3:45 PM
Break

3:45 PM – 6:00 PM
AAAI-24 Awards and AAAI Organizational Awards