

IAAI-23 Schedule

Thursday, February 9

8:30 AM -9:30 AM – Ballroom ABC

AAAI-23 Opening Remarks

9:30 AM – 10:45 AM – Room 204BC

Track: Deployed

6734: Developing the Wheel Image Similarity Application with Deep Metric Learning: Hyundai Motor Company Case
Kyung Pyo Kang

Track: Emerging

8413: Data-Driven Machine Learning Models for a Multi-Objective Flapping Fin Unmanned Underwater Vehicle Control System
Julian Lee

Track: Emerging

6078: Vessel-to-Vessel Motion Compensation with Reinforcement Learning
Sverre Herland

Track: Deployed

1038: Trustworthy Residual Vehicle Value Prediction for Auto Finance
Mihye Kim

10:45 AM – 11:15 AM

Break

11:15 AM – 12:30 PM – Room 204BC

Track: Deployed

1615: Accurate Detection of Weld Seams for Laser Welding in Real-World Manufacturing
Muhammad Sarmad

Track: Deployed

7531: Efficient Training of Large-Scale Industrial Fault Diagnostic Models through Federated Opportunistic Block Dropout
YuanYuan Chen

Track: Emerging

2876: SolderNet: Towards Trustworthy Visual Inspection of Solder Joints in Electronics Manufacturing Using Explainable Artificial Intelligence
Hayden Gunraj

Track: Emerging

7685: High-Throughput, High-Performance Deep Learning-Driven Light Guide Plate Surface Visual Quality Inspection Tailored for Real-World Manufacturing Environments
Carol Xu or video

12:30 PM - 2:00 PM

Lunch

2:00 PM – 3:15 PM – Room 204BC

Track: Deployed

2733: A Robust and Scalable Stacked Ensemble for Day-Ahead Forecasting of Distribution Network Losses
Gunnar Grotmol

Track: Practices/Challenges

3422: A Dataset and Baseline Approach for Identifying Usage States from Non-intrusive Power Sensing with MIDAS IoT-Based Sensors

Bharath Muppasani

Track: Integration

9022: Adaptive Temporal Planning for Multi-Robot Systems in Operations and Maintenance of Offshore Wind Farms

Sara Bernardini

Track: Deployed

6460: eForecaster: Unifying Electricity Forecasting with Robust, Flexible, and Explainable Machine Learning Algorithms

ZhaoYang Zhu

3:15 PM – 3:45PM

Break

3:45 PM – 5:00 PM – Room 204BC

Track: Integration

848: PARCS: A Deployment-Oriented AI System for Robust Parcel-Level Cropland Segmentation of Satellite Images

ZhiCheng Yang

Track: Emerging

4930: Grape Cold Hardiness Prediction via Multi-Task Learning

Aseem Saxena

Track: Emerging

1438: Embedding a Long Short-Term Memory Network in a Constraint Programming Framework for Tomato Greenhouse Optimisation

Sebastijan Dumančić

Track: Deployed

2804: THMA: Tencent HD Map AI System for Creating HD Map Annotations

Xu Cao + video

5:00 PM – 6:00 PM – Ballroom ABC

AAAI award for AI for the Benefit of Humanity Lecture

6:00 PM – 7:00 PM – Ballroom ABC

AAAI-23 Invited Talk

Friday, February 10

8:30 AM – Ballroom ABC

IAAI Engelmores Award Talk

Manuela Veloso

9:30 AM – 10:45 AM – Room 204BC

Track: Deployed

9435: Increasing Impact of Mobile Health Programs: SAHELI for Maternal and Child Care

Shreshth Verma

Track: Emerging

3953: Phase-Informed Bayesian Ensemble Models Improve Performance of COVID-19 Forecasts

Gursharn Kaur

Track: Emerging

6579: Reward Design for an Online Reinforcement Learning Algorithm Supporting Oral Self-Care

Anna Trella

Track: Deployed

1698: AmnioML: Amniotic Fluid Segmentation and Volume Prediction with Uncertainty Quantification

Video

10:45 AM – 11:15 AM

Break

11:15 AM – 12:30 PM – Room 204BC

Track: Deployed

2768: An Explainable Forecasting System for Humanitarian Needs Assessment

Rahul Nair

Track: Emerging

7821: MobilePTX: Sparse Coding for Pneumothorax Detection Given Limited Training Examples

Darryl Hannan

Track: Emerging

7276: Towards Safe Mechanical Ventilation Treatment Using Deep Offline Reinforcement Learning

Flemming Kondrup

Track: Deployed

4465: OPRADI: Applying Security Game to Fight Drive under the Influence in Real-World

Video

12:30 PM

Lunch

2:00 PM – 3:15 PM – Room 204BC

Panel: AI Assurance

Dr. Laura Freeman, Ima Okonny, Dr. Yevgeniya (Jane) Pinelis, Dr. Jaret C. Riddick, Dr. Michael R. Salpukas

3:15 PM – 3:45PM

Break

3:45 PM – 5:00 PM – Room 204BC

Track: Deployed

5217: Xaitk-Saliency: An Open Source Explainable AI Toolkit for Saliency

Brian Hu

Track: Deployed

1288: Industry-Scale Orchestrated Federated Learning for Drug Discovery

Martijn Oldenhof

Track: Emerging

2140: End-to-End Pipeline for Trigger Detection on Hit and Track Graphs

TingTing Xuan

Track: Emerging

9752: Cosmic Microwave Background Recovery: A Graph-Based Bayesian Convolutional Network Approach

Jadie Adams

5:00 PM – 7:00 PM – Ballroom ABC

AAAI-23 Invited Talks

Saturday, February 11

8:30 AM – 9:30 AM – Ballroom ABC

AAAI-23 Invited Talk

9:30 AM – 10:45 AM – Room 204BC

Track: Deployed

9124: Real-Time Detection of Robotic Traffic in Online Advertising

Anand Muralidhar

Track: Emerging

7243: Detecting VoIP Data Streams: Approaches Using Hidden Representation Learning

Maya Kapoor

Track: Emerging

4314: AnimateSVG: Autonomous Creation and Aesthetics Evaluation of Scalable Vector Graphics Animations for the Case of Brand Logos

Rebecca Armbruster, Sarah Sester, and Deborah Mateja

Track: Deployed

663: NewsPanda: Media Monitoring for Timely Conservation Action

Ryan Shi + Video

10:45 AM – 11:15 AM

Break

11:15 AM – 12:30 PM – Room 204BC

Track: Deployed

7479: Blending Advertising with Organic Content in E-commerce via Virtual Bids

Carlos Carrion

Track: Emerging

1192: Towards Hybrid Automation by Bootstrapping Conversational Interfaces for IT Operation Tasks

Kushal Mukherjee

Track: Emerging

9370: Intuitive Access to Smartphone Settings Using Relevance Model Trained by Contrastive Learning

Video

Track: Deployed

6473: Dynamic Pricing with Volume Discounts in Online Settings

Video

12:30 PM – 2:00 PM

Lunch

2:00 PM – 3:15 PM – Room 204BC

Track: Emerging

2251: Compressing Cross-Lingual Multi-Task Models at Qualtrics

Yashmeet Gambhir

Track: Tool

5577: DetAIL: A Tool to Automatically Detect and Analyze Drift in Language

Nistha Madaan

Track: Emerging

6518: Fault Injection Based Interventional Causal Learning for Distributed Applications

Jesus Rios + Video

Track: Deployed

8700: MuMIC – Multimodal Embedding for Multi-Label Image Classification with Tempered Sigmoid

ZhiQiang Zhou or QingSong Wen

Track: Deployed

9624: AHPA: Adaptive Horizontal Pod Autoscaling Systems on Alibaba Cloud Container Service for Kubernetes

Video

3:15 PM - 3:45 PM

Break

3:45 PM – 4:45 PM – Ballroom ABC

AAAI-23 Invited Talk

4:45 PM – 5:45 PM – Ballroom ABC

AAAI-23 Invited Talk

5:45 PM – 6:30 PM – Ballroom ABC

Awards