



International Conference on
**Machine Learning
and Artificial Intelligence**

Conference Dates & Venue

October 21-22, 2024 | Edinburgh, UK

ICMLAI-2024

Final Program

09:00 - 09:30

On Spot Registrations

- Chair** **Xiaohong Wang Gao**, Middlesex University, UK
- Co - Chair** **Luke Theogarajan**, University of California Santa Barbara, USA

Plenary Presentations

- 09:30-10:10** **P** *Title:* Novel Higher Order Signal Processing for Vibro-Acoustical Condition Monitoring
Len Gelman, University of Huddersfield, UK
- 10:10-10:50** **P** *Title:* AI Techniques in Early Detection of Oesophageal Cancers
Xiaohong Wang Gao, Middlesex University, UK

10:50-11:05

Refreshment Break

- 11:05-11:45** **P** *Title:* The Potts and Ising Hardware Models
Luke Theogarajan, University of California Santa Barbara, USA

Keynote Presentations

- 11:45-12:15** **K** *Title:* AI at the Edge in IIoT Scenarios
Valerio Frascolla, Director Research and Innovation at Intel, Germany
- 12:15-12:45** **K** *Title:* AI-Aided Drive System Design, Control and Maintenance for More-Electric Aircraft Applications
Yuan Gao, University of Leicester, UK
- 12:45-13:15** **K** *Title:* Vector Decision and Quantum Robot Routing for Smart Agent with Big Model & Federated Q-learning
Wanyang Dai, Nanjing University, China

13:15-14:15

Group Photo

Lunch Break

- 14:15-14:45** **K** *Title:* Wine Informatics: Building Neural Networks and Computational Models on Wine Reviews Merged from Different Sources to Comprehend Characteristics of Classic
Bernard Chen, University of Central Arkansas, USA

14:45-15:15

K *Title:* Grading in the Age of AI: Rethinking Assessment with Large Language Models

Oluwole Olaoluwa Fagbohun, GenAI Lab, Readrly Limited, UK

Workshop Presentation

15:15-16:15

W *Title:* Ethical & Societal Implications of AI-Advances in the Assessment and Certification of AI Ethics

A.G. Hessami, Vega Systems, UK

16:15-16:30

Refreshment Break

Invited Presentations

16:30-16:50

I *Title:* Explainable Anomaly Detection with Generative Adversarial Networks for Time Series

Cher Simon, Principal Architect at Amazon Web Services, USA

16:50-17:10

I *Title:* Evaluating the Effectiveness of a Collaborative Framework on Student Learning

Omar Zammit, Middlesex University, UK

17:10-17:30

I *Title:* Shadows in the Classroom: The Unseen Consequences of Large Language Models in Educational Settings

Akinyemi Sadeeq Akintola, NOVA University Lisbon, Portugal

17:30-17:50

I *Title:* The Role of Artificial Intelligence in Revolutionising Green Financing: Enhancing Sustainability Through Technology

Omotoso Oluwayomi Joseph, Talents Corp Limited, UK

17:50-18:10

I *Title:* Assessing Zero-Shot and Zero-Shot Chain-of-Thought Reasoning Abilities in JAMB Mathematics and Physics Exams: Do LLMs 'Know' JAMB?

Ogheneruona Maria Esegbona-Isikeh, Birmingham City University, England

Closing the Day 1 Conference

Plenary Presentations

- 09:30-10:10** **P** *Title:* Machine Learning in Detection and Stratigraphic Age Prediction of Lunar Craters
Wei Zuo, National Astronomical Observatories, Chinese Academy of Sciences, China
- 10:10-10:50** **P** *Title:* Will Be Updated Soon
Ioannis Kypraios, Northeastern University, USA

10:50-11:05

Refreshment Break

Keynote Presentations

- 11:05-11:35** **K** *Title:* Teaching Software Development and Programming in the Face of AI - Challenges, Opportunities and Strategies
Mathias M Fonkam, Penn state University, USA
- 11:35-12:05** **K** *Title:* Ten (Easy) Ways to Use Generative AI to Destroy a Business
Lin Chase, Minnesota State University, USA

12:05-13:05

Poster Presentation

- Poster** **P1** *Title:* Enhancing Mathematical Creativity Through AI-Augmented Argumentative Discourse-Centered Classroom: A Paradigm Shift in Mathematics Education
Mae Antonette Ticar, Middlesex University, UK
- Poster** **P2** *Title:* Predicting Physician Empathy from Facial Mimicry Analyzed in Real-World Clinical Video Data of Dermatology Outpatient Clinics Profiles and Deep Learning Algorithms
Annisa Ristya Rahmanti, Middlesex University, UK
- Poster** **P3** *Title:* Machine Learning Chemometric Analysis of Infrared (IR) Spectroscopic Data for Investigating Cultural Heritage Objects
Guan-Lin Liu, Middlesex University, UK
- Poster** **P4** *Title:* Implementation of Counter Propagation Artificial Neural Network Models to Determine the Pharmacological and Toxicological Properties of Fullerene Carbon
Natalja Fjodorova, National Institute of Chemistry, Slovenia
- Poster** **P5** *Title:* Building Neural Networks Models for Biological Activity Evaluation of Chemical Substances
Katja Venko, National Institute of Chemistry, Slovenia

Poster **P6** *Title:* Will Be Updated Soon
Liu Zhaowei, Tsinghua University, China

Group Photo

13:05-14:05

Lunch Break

14:05-14:25 **Video** *Title:* Machine Learning Models for Dynamic Pricing
Amir Atiya, Cairo University, Egypt

14:25-14:50 **Video** *Title:* Advancements in AI-Driven Predictive Analytics for Cybersecurity
Praveen Tripathi, AI/ML & Cloud Services Innovator, USA

14:50-15:15 **Video** *Title:* Incorporating the Latest Human Feedback Techniques in Training Large Language Models
Manas Talukdar, Data Infrastructure and Enterprise AI, USA

15:15-15:40 **Video** *Title:* Robust Deep Learning-Based Barcode Detection
Xiaoyan Dai, Kyocera Coporation, Japan

15:40-15:55

Refreshment Break

15:55-16:15 **Video** *Title:* Efficacy in Lift and Shift of ML Models in SAAS Applications
Venkata Duvvuri, Director of Data Science at Oracle Corporation, USA

16:15-16:35 **Video** *Title:* Agentic Framework for Data Engineering, Data Virtualization, and Database Task Automation
Anandaganesh Balakrishnan, AI & Data Engineering, USA

16:35-16:55 **Video** *Title:* Revolutionizing Healthcare: The Dawn of Artificial General Intelligence in Medicine
Douglas Amante, Singapore University of Technology and Design, Singapore

Closing the Conference

UPCOMING CONFERENCE



**2nd International Conference on
Machine Learning and
Artificial Intelligence**

May 29-31, 2025 | Amsterdam, Netherlands