

Agenda - Future Technologies Conference (FTC) 2024

14-15 November 2024 | London, United Kingdom

FTC 2024

TIME (London) GMT	Thu Nov 14	Fri Nov 15
09:00 AM	Delegates Check-in	Delegates Arrive
09:30 AM - 11:00 AM	Opening + Keynote Talks <ul style="list-style-type: none">• Steven Pemberton, CWI, Amsterdam• Adrian Hilton, University of Surrey	Keynote Talks <ul style="list-style-type: none">• Peter Triantafillou, University of Warwick• John Collomosse, Adobe Research
11:00 AM - 11:30 AM	Poster Presentations Networking Break	Networking Break
11:30 AM - 12:30 PM	Paper Presentations <ul style="list-style-type: none">• Session 1: e-Learning• Session 2: Human Computer Interaction	Paper Presentations <ul style="list-style-type: none">• Session 7: Technology Trends• Session 8: Security
12:30 PM - 01:30 PM	Lunch	Lunch
01:30 PM - 03:15 PM	Paper Presentations <ul style="list-style-type: none">• Session 3: Data Science• Session 4: Artificial Intelligence	Paper Presentations <ul style="list-style-type: none">• Session 9: Data Science• Session 10: Security
03:15 PM - 03:45 PM	Networking Break	Networking Break
03:45 PM - 04:45 PM	Paper Presentations <ul style="list-style-type: none">• Session 5: Deep Learning• Session 6: Ambient Intelligence	Paper Presentations <ul style="list-style-type: none">• Session 11: Ambient Intelligence• Session 12: Computer Vision
05:00 PM Onwards	London Tour (The coaches will depart from the hotel at 5 PM for an enchanting city tour, returning to the hotel by 10 PM)	Conference Closing

Future Technologies Conference 2024 | Day 1 - November 14, 2024

Session 1: e-Learning

November 14 | 11:30 AM - 12:30 PM | Chiswick Ballroom

Session Chair: Anteneh Girma

31 - Designing for Diversity: Applying the Conceptual Framework for Multi-Campus Course Development in a Case Study (**Abdullah Bahmani**)

224 - Design and Development of the Mobile Application ENVITOUR (English Videos for TOURism) to Practice Oral Production in English for Tourism (**Ana Ibanez Moreno**)

304 - Beyond the Maze: How AI Personalizes Learning and Drives Engagement in Educational Games (**Reno Yuri Camilleri**)

455 - Exploring Challenges in Remote Communication: Comparing Teleconferencing Software and Telepresence Robots Usage in Higher Education (**Aleksei Talisainen**)

Session 2: Human Computer Interaction

November 14 | 11:30 AM - 12:30 PM | Hogarth Suite

Session Chair: Joanna Ejdys

387 - Analyzing Smartphone Separation vs. Restriction on Users' Well-Being During a Pandemic (**Catharina Muench**)

188 - Control-Driven Media: A Unifying Model for Consistent, Cross-platform Multimedia Experiences (**Ingar M. Arntzen**)

195 - Prototyping AI-infused Annotation Tool for Primary Ciliary Dyskinesia Diagnostics (**Martin Dubovsky**)

427 - A Human-Machine Dialog System and a No-Code Platform for End-to-End Automation of Business Applications Development Process (**Abdelhadi Rouam**)

306 - Electronic Health Record System Design for Inflammatory Bowel Disease: A Case Study (**Miroslav Laco**)

Session 3: Data Science

November 14 | 01:30 PM - 03:15 PM | Chiswick Ballroom

Session Chair: Said Baadel

22 - Leveraging Artificial Intelligence Models Using Synthetic Data (**Marina Soledad Iantorno**)

43 - Tausi: A Holistic Artificial Intelligence Approach to Credit Scoring Using Informal Data for a Sustainable Micro-Lending African Economy (**Said Baadel**)

124 - Quickest Detection of Failures in Autoregressive Stochastic Systems in Short Periods (**Serguei Pergamenchtchikov**)

395 - Towards the Design of Explanation-aware Decision Support Systems (**Olawande Daramola**)

305 - Cloud Versus Local: Performance Evaluation of Multi-Node Hadoop Clusters Using HiBench Benchmarks (**Siri Arelli, Harshit Kumar Chaubey**)

2 - ChatGPT and ChatGPT API: An Experiment with Evaluating ChatGPT Answers (**Ahmad Rawashdeh**)

93 - The Serial Data Processing Unit: High Performance with Parallelism in Network Processing (**Tom Herbert**)

89 - Novel Approach with AI to Increase Life of Wireless Sensor Networks (WSNs) via FCMA (**Ashwani Kush**)

Session 4: Artificial Intelligence

November 14 | 01:30 PM - 03:15 PM | Hogarth Suite

Session Chair: Sergei Gorlatch

72 - Assessment of Lime's Performance in Sentiment Analysis of Sentences with Varying Lengths (**Almuth Müller**)

162 - A Review on Artificial Intelligence and the Global Economy (**Ashot Davoyan**)

197 - AI-Enhanced Cybersecurity Training: Integrating Ethical Reasoning and Personalized Learning Pathways (**Randy Hinrichs**)

33 - Reducing Carbon Footprint in AI: A Framework for Sustainable Training of Large Language Models (**Sunbal Iftikhar**)

60 - Empirical Study of Symmetrical Reasoning in Conversational Chatbots (**Daniela N. Rim**)

23 - Navigating Autonomy: Vision-Based Guidance for Two-Wheeled Inverted Pendulum Mobile Robots (**Sherine M Antoun**)

36 - Challenges of Robotic Milli-G Operations for Asteroid Mining (**Alex Ellery**)

425 - Machine Learning for Intrusion Detection Systems: A Systematic Literature Review (**Olawande Daramola**)

Session 5: Deep Learning

November 14 | 03:45 PM - 04:45 PM | Chiswick Ballroom

Session Chair: Sherine M Antoun

- 430 - Context-Aware Machine Learning: A Survey (Liane-Marina Messmer)
- 126 - Transient Chaotic Neural Network with Negative Self-Feedback Memory for Continuous Optimisation Problems (Emily Rodden)
- 238 - AI Against AI: Reverse Engineering to Combat Deepfakes (Bryson Payne)
- 379 - A Study on Automatic Detection of Displacement of Petroglyphs of Bangudae Terrace in Daegok-ri, Ulju Using an Artificial Intelligence Learning Model (Sang-Yun Lee)

Session 6: Ambient Intelligence

November 14 | 03:45 PM - 04:45 PM | Hogarth Suite

Session Chair: Said Baadel

- 253 - Home Occupancy Simulation Using Machine Learning (Humam A. Al-Shami)
- 10 - Flex2TRL: A Study Tool to Evaluate the LoRaWAN Covering Range Based on RSSI (Joffrey Herard)
- 57 - Hyperloop Decision Making Ecosystem Empowered by Ambient Artificial Intelligence (Aleksejs Vesjolijs)
- 127 - Adaptive Air Monitoring with a Combination of Solar Glider and Drone (Martin Zagar)

05:00 PM onwards - Free London Tour !

Don't miss the fun and exciting evening where we will take you on a tour to see some of London's famous landmarks. This is also a great chance to mingle with other participants. Dinner or meals are not included in this tour.

5:00 pm: Coaches will pick you up from the conference venue (Clayton Hotel Chiswick)

5:30 pm - 8:00 pm: Scenic bus tour of the City of London

8:00 pm - 9:30 pm: Stopover at Covent Garden (has various dining options/ cuisines - delegates to pay on their own)

9:30 pm: Board and Return to the conference hotel (Clayton Hotel Chiswick)

Future Technologies Conference 2024 | Day 2 - November 15, 2024

Session 7: Technology Trends

November 15 | 11:30 AM - 12:30 PM | Chiswick Ballroom

Session Chair: Serguei Pergamenchtchikov

- 172 - Smart and Sustainable Mobility Technologies: Technology Acceptance Models Constructs Review (Joanna Ejdys)
- 344 - Utilization of Demand Side Management for Stability Improvement in Renewable Energy Resources in United Kingdom (Rida Sundas)
- 35 - Aspects of Digital Transformation Implementation for Marginal Offshore Fields in South East Asia (SEA) (Vinesh Thiruchelvam)
- 246 - How to Choose a Blockchain Technology for an Innovation Project: Taxonomy and Use Cases (Álvaro García Recuero)

Session 8: Security

November 15 | 11:30 AM - 12:30 PM | Hogarth Suite

Session Chair: Ahmed Elmesiry

- 128 - Impact of US Bitcoin ETF Introduction on BTC and ETH Intraday Regime Seasonality (Tom J. Espel)
- 412 - Reviewing the Effectiveness of Multi-Factor Authentication (MFA) Methods in Preventing Phishing Attacks (Anteneh Girma)
- 410 - Security Challenges and Solutions in 5G-Enabled IoT Networks (Anteneh Girma)
- 140 - Privacy and Security of Mobile Banking: A PRISMA-Centric Review of Android Finance Applications (Suzanna Schmelk)
- 28 - Strengthening Industrial IoT Security with Integrated PUF Token (Saloni Jain)

Session 9: Data Science

November 15 | 01:30 PM - 03:15 PM | Chiswick Ballroom

Session Chair: Sherine M Antoun

- 21 - Navigating the Evaluation Funnel to Optimize Iteration Speed for Recommender Systems (Brammert Ottens, Claire Schultzberg)
- 330 - ALICE: Combining Feature Selection and Inter-Rater Agreeability for Machine Learning Insights (Vahidin Jeleskovic)
- 255 - Effect of Label-Noise Filtering on Classification of Imbalanced Data Sets with SVM (Attila Fazekas)
- 426 - Sustainable Practices in AI and Big Data (Nikola Kuchtikova)
- 11 - A Multi-Layered Approach to Evaluating Speech Translation Performance of Meetings (Davis Nicmanis)
- 137 - Machine Learning Approaches for Predicting Occupancy Patterns and its Influence on Indoor Air Quality in Office Environments (Sumayyah Dzulkifly)

Session 10: Security

November 15 | 01:30 PM - 03:15 PM | Hogarth Suite

Session Chair: Ahmed Elmesiry

- 243 - Computational Attestations of Polynomial Integrity Towards Verifiable Machine-Learning (Dustin Ray)
- 290 - RISC-V Word-Size Modular Instructions for Residue Number Systems (Jean-Marc Robert)
- 74 - Strengthening Supply Chain Risk: A Proactive Prioritization Model (Gökçe Yakut)
- 98 - On the Restoration of Historical Matsumoto-Imai Cryptosystem and Other Schemes in Terms of Noncommutative Cryptography (Vasyl Ustimenko)
- 147 - Characterisation of Temporal and Spatial Phase in Free-Space Phase-Based Quantum Key Distribution (Ry Render)
- 320 - Collaborative Forensic Platform for Electronic Artefacts in the Internet of Vehicles (Ahmed M. Elmesiry)
- 215 - A Secure Scheme to Counter the Man in the Middle Attacks in SDN Networks-Based Domain Name System (Miguel Landry Foko Sindjoug)

Session 11: Ambient Intelligence

November 15 | 03:45 PM - 04:45 PM | Chiswick Ballroom

Session Chair: Anteneh Girma

- 46 - A Policy-based Autonomic Management System for Smart Cities Leveraging Off-the-Shelf Platforms (Elham Okhovat)
- 432 - Epistemic Reasoning About IoT Systems in the Presence of Uncertainty (Khalid Sultan)
- 266 - Efficient Load-Balancing and Container Deployment for Enhancing Latency in an Edge Computing-Based IoT Network Using Kubernetes for Orchestration (Mthulisi Velempini)
- 189 - Cross Layer Routing and Medium Access Control Protocols in Cognitive Radio Networks (Miyelani Silence Madiba)

Session 12: Computer Vision

November 15 | 03:45 PM - 04:45 PM | Hogarth Suite

Session Chair: Sergei Gorlatch

- 184 - Prediction Pathways: A General Boosted Trees Decomposition and Visualization Methodology (Nathan Klarer)
- 421 - Towards a Face Verification System-on-Card with Compound-Eye Camera (Olaf Henniger)
- 132 - Improving Infrastructure Monitoring: UAV-Based Photogrammetry for Crack Pattern Inspection (Pascucci N., Donatella Dominici)
- 270 - Semantically Controlled Texture Synthesis by Diffusion Model (Maros Kollár)