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 Login	Delegates Login
09:15 AM - 11:00 AM	Opening + Keynote Talks • Steven Pemberton, CWI, Amsterdam • Adrian Hilton, University of Surrey	Keynote Talks • Peter Triantafillou, University of Warwick • John Collomosse, Adobe Research
11:00 AM - 11:30 AM	Break	Break
11:30 AM - 12:30 PM	Paper Presentations • Session 1: Robotics • Session 2: Artificial Intelligence • Session 3: Security	Paper Presentations • Session 10: Data Science • Session 11: Ambient Intelligence • Session 12: Security
12:30 PM - 01:30 PM	Lunch Break	Lunch Break
01:30 PM - 03:15 PM	Paper Presentations • Session 4: Data Science • Session 5: Artificial Intelligence • Session 6: Computer Vision	Paper Presentations • Session 13: Data Science • Session 14: e-Learning • Session 15: Security
03:15 PM - 03:45 PM	Break	Break
03:45 PM - 05:00 PM	Paper Presentations • Session 7: Deep Learning • Session 8: Technology Trends • Session 9: Computing	Paper Presentations Session 16: Deep Learning Session 17: Technology Trends Session 18: Computing
05:00 PM Onwards		Conference Closing

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

Session 1: Robotics
November 14 | 11:30 AM - 12:30 PM

468 - A Machine Learning-Based Household Robot (Razan Al-Hamed)

276 - Robotics Adoption in the Construction Sector: A Bibliometric Analysis of Current Research Trends and Future Directions (Kenneth Otasowie)

439 - Aerial Manipulator Control Based on Linear Algebra and Lyapunov Theories (Franklin M. Silva)

467 - Aerial Manipulator Robot Trajectory Tracking for Rhythmic Entertainment Applications (Cesar A. Naranjo)

469 - The Automated Guitarist: A Programmed-Based Musical Robot (Jihad Al-Sawda)

Session 2: Artificial Intelligence
November 14 | 11:30 AM - 12:30 PM

235 - No Podcast Ever Gets Made: A Case Study and Methodology for Human-AI Collaborative Storytelling Podcasts (Jeffrey T.K.V. Koh)

41 - Development of an AI Based Failure Predictor Model to Reduce Filament Waste for a Sustainable 3D Printing Process (Omid Fatahi Valilai)

264 - IterSHAP: An XAI-Based Feature Selection Method for Small High-Dimensional Datasets (Faizan Ahmed)

263 - EmoRoom: Unveiling Academic Emotions Through Interactive Visual Analytics in Classroom Videos (Rajamanickam Yuvaraj)

37 - GPT Models and Video Game Narrative: A Meta-Analysis of Language Model Studies (Andrija Bernik)

Session 3: Security
November 14 | 11:30 AM - 12:30 PM

310 - Moving Beyond Traditional Incident Response: Combating APTs with Warfare-Enabled Continuous Response (Abid Shah)

446 - Enabling Decentralized Applications in Disconnected Environments: An Ad-hoc Blockchain on a Wireless Mesh Network (Kohei Arai)

139 - A Holistic Security Approach to Protect Cloud-Native Applications (Pedro R. Tomas)

138 - A Novel Approach for Continual and Federated Network Anomaly Detection (Luis Cordeiro)

24 - Overcoming the Fear of Missing Out on Data (Yuri Bobbert)

Session 4: Data Science
November 14 | 01:30 PM - 03:15 PM

277 - Big Data Adoption in Construction and Demolition Waste Management (Kenneth Otasowie)

166 - A Comparative Study of Machine Learning Algorithms on Datasets of Varying Sizes (Xiaoting Huang)

34 - A Conditioned Unsupervised Regression Framework Attuned to the Dynamic Nature of Data Streams (René Richard)

77 - A Neuromarketing Approach to Identify Consumer's Ties and Preferences Through Multivariate Data (Jesús Jaime Moreno Escobar)

404 - AI to Detect Firms' Competitive Performance (Alessandro Bruno)

157 - Analyzing E-Commerce Dynamics (Ashutosh Sagar)

177 - City Recommender System (Dorsa Soleymani)

193 - Enhancing Classification with Multimodality: A Hierarchical Approach to Fashion Item Categorization (Waly Ngom)

Session 5: Artificial Intelligence
November 14 | 01:30 PM - 03:15 PM

211 - Fostering Trust and Quantifying Value of AI and ML (Veena Calambur)

318 - Improved Agent-Based Learning Platform for Introductory AI (Ramoni O. Lasisi)

419 - DADU: Dual Attention-Based Deep Supervised UNet for Automated Semantic Segmentation of Cardiac Images (Racheal Mukisa)

284 - A General Purpose Device for Interaction with LLMs (Qun Wang)

429 - Building an Electronic Health Record Knowledge Graph for the Mexican Health System (Fernando Xadir)

14 - Content-Based Web Classifier System for Dementia Definitions Using Natural Language Processing (Diego Vallejo-Huanga)

400 - Towards Designing a Graph-Based Clustering of Crime Reports Using Graph Learning Techniques (Haifa Al-Ibrahim)

282 - AI-Assisted Academic Writing (Edward R Sykes)

Session 6: Computer Vision
November 14 | 01:30 PM - 03:15 PM

116 - Automatic Detection of Common Gastroenterological Diseases Using a Small Dataset (Marcio Sarroglia Pinho)

231 - Considerations for Successful Design and Development of Virtual Reality Tourism in the 21st Century (Lindsay Grace)

70 - HAT: Homography-Based Alternate Training for Pose-Invariant Face Recognition (Bowen Sun)

261 - Object Detection for Autonomous Vehicles in Urban Areas Using Deep Learning (Syed Muhammad Usman)

9 - The Impact of 3D and AR Product Presentation on Mental Imagery, Product Uncertainty and User Experience (Marian Mc Donnell)

383 - Times Square: A Time Series Dataset for Semi-Supervised Crowd Counting (Salma Alghamdi)

269 - Towards Digital Zen (Amir Reza Asadi)

461 - Utilizing Transfer Learning and Graph Matching Spatial Attentions from Using CARLA Pre-Trained Models (Vasanth Iyer)

Session 7: Deep Learning
November 14 | 03:45 PM - 05:00 PM

63 - A Deep Learning Framework for Classifying and Mitigating Bias in News Reporting (Nandita Sengupta)

459 - Advanced Traffic Safety Analysis: Leveraging Deep Learning and Large Language Models for Near-Crash Detection in Crowdsourced Videos (Shadi Jaradat)

17 - Data Property Mitigator: Empowering Pneumonia Detection Using Deep Learning Models and Chest X-Rays (Hanan J. Farhat)

346 - Emotion Unleashed: Real-Time FER in Video via Advanced Deep Learning Models (Alessandro Bruno)

207 - Exploring the Performance of Deep Learning Models for Neutrino Direction Prediction in High-Energy Astrophysics (Sandile Thamie Mhlanga)

90 - Improving Analytic Approximation of Log-Normal Interest Rate Model with Neural Network (Anna Knezevic)

Session 8: Technology Trends
November 14 | 03:45 PM - 05:00 PM

145 - Digitisation in the South African Construction Industry (Peter Adekunle)

5 - Digitisation of the Construction Industry for Economic Growth (Peter Adekunle)

437 - Exploring Women-Centric Health Technology Design (Kemi Akanbi)

196 - Governance Framework for Academic Verifiable Credentials Using KERI and ACDC (Marija Taneska)

202 - Leveraging on Technologies Within Quality Management Systems for Enhanced Project Success in Construction (Peter Adekunle)

252 - Low-Tech Methods for Rainwater Quality Analysis and Perspective Usage of Mobile Phone as a Diagnostic Tool (Serge Rohmer)

171 - A Blockchain-Based Solution for the Security and Management of Electronic Medical Records (EMR) in Healthcare (Joseph Cox)

Session 9: Computing
November 14 | 03:45 PM - 05:00 PM

398 - A Novel OO-Based Code Complexity Metric (H. A. N. N. Thathsarani)

232 - Augmented Reality Storybook for Color-Blind Children: Enhancing Reading Experience (John Ivan C Maurat)

466 - Autoadaptive Lattices of Magnetic Vortices in Coherent Domains of Condensed Matter for "Intelligent" Quantum Computing and Storing (Luigi Maxmilian Caligiuri)

64 - Building Blocks to Empower Cognitive Internet with Hybrid Edge Cloud (Michel Burger)

438 - Generation of Student's Programming Exercises Using SCT Generator (Andrija Bernik)

179 - Information Retrieval Systems: A Methodological Review (Johniel Babiera)

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

Session 10: Data Science
November 15 | 11:30 AM - 12:30 PM

163 - Emotions and Customer Satisfaction in the Mobile Banking Era: An Empirical Analysis (Viviana Espinoza Loayza)

373 - An Approach for House Price Prediction Using Bayesian Regression (Hao Do)

223 - The Adoption of Electronic Payments in Online Shopping (Nguyen Thi Phuong Giang)

222 - Fast and Scalable Multi-Kernel Encoder Classifier (Cencheng Shen)

452 - GenDatr: Visualizing Probabilistic Data Generation in Medical Data Science (Dennis Wong)

194 - Lake Water Level Forecasting Using LSTM and GRU: A Deep Learning Approach (Yuxin Du)

Session 11: Ambient Intelligence
November 15 | 11:30 AM - 12:30 PM

358 - Case Study: Financial Returns of a Small Home On-Grid PV System vs. Off-Grid System for Water Heating (Matús Sásik)

258 - Design and Implementation of a Home Electricity Monitoring System (ElecTech) (Mustafa Ayad)

364 - Empowering Grid Resilience: Stakeholder Insights on Solar Energy Storage (Nikhil Jayaraj)

32 - Exploring Scalable User Mobility Impact on Energy Efficiency, Latency and Network Usage in Smart Homes (Kelvin N. Lawal)

122 - Foliar Chlorophyll Monitoring to Enhance Palm Oil Plant Productivity (Aznida Abu Bakar Sajak)

Session 12: Security
November 15 | 11:30 AM - 12:30 PM

165 - A Novel Approach to Optimize Response-Based Cryptography for Secure Data Transmission (Saloni Jain)

299 - Revolutionizing Authentication in Blockchain (Volker Wannack)

114 - Analyzing the Correlation Between Employee Security Awareness and Cyberattack Vulnerability: A Quantitative Study (Mostafa Ahmadi)

191 - Deep Learning-Based Anomaly Detection in TLS Encrypted Traffic (Kehinde Ayano)

61 - Exploring Latent Fingerprint Synthesis with Diffusion Probabilistic Models (Jingqiao Wang)

Session 13: Data Science
November 15 | 01:30 PM - 03:15 PM

146 - Optimization of Few-Shot Learning NER Models Through Grammatical Conditioning of Training Data (Tobias Dorrn)

178 - Global Warming's Influence on Temperature Increase (Wisam Bukaita)

375 - Pricing Data Based on Value: A Systematic Literature Review (Philipp Herrmann)

97 - Security Analysis in Ecuador (Henry N. Roa)

435 - Strategic Selection of ITIL v4 Services for Cybersecurity Defense (Abdelilah Chahid)

293 - Systematic Literature Review and Bibliometric Analysis of Low-Resource Speech-To-Text Translation (D. Fortuné Kponou)

151 - Training-Testing Data Ratio Selection for Accurate Time Series Forecasting (Guillermo Garcia de Celis)

428 - Using Mixed Exponentials for Unsupervised Discretization (Dulan S. Dias)

458 - Design Graph-Structured Dataset and Feature Selection for Cyber Threat Detection (Ukid Changsan)

Session 14: e-Learning
November 15 | 01:30 PM - 03:15 PM

186 - A Systematic Review of Current Methods Used to Develop Professional Skills in Information Communication Technology Students in Higher Education (Ruobin He)

312 - Choosing Virtual Reality for Military Training (Malgorzata Gawlik-Kobylinska)

129 - Construction Safety Student Perceptions of Spatial Presence in Virtual Reality (Diane Guevara)

30 - Enhancing Usability and User Experience Through User Onboarding in an Ecological Information App (Chia-yin Yu)

26 - Game-Based Engagement Management System (Siegwart Mayr)

108 - Nonlinear Model Predictive Control for Omnidirectional Robots (Jessica S. Ortiz)

173 - STAR, a Universal, Repeatable, Strategic Model of Corporate Innovation for Industry Domination (Ronald Berman)

281 - The Importance of Motivation in the Collaborative Learning Process in Pandemic and Post-Pandemic Undergraduate Students (Veronica Martinez Lazcano)

Session 15: Security
November 15 | 01:30 PM - 03:15 PM

424 - Hardware Implementation of Analog Keyless Encapsulation Using Preformed ReRAM PUF (Ashwija Reddy Korenda)

371 - Investigating Ephemeral Messaging Apps on iPhone 14 (Tamirat Abegaz)

85 - A Framework for TrustZone Encoding/Decoding for QR Buyer-Presented and VCC Offline Generated Payments (Ammar S. Salman)

75 - Performance Evaluation of Response Based Cryptography Versus Fuzzy Extractors Based on Error Correction Codes (Ashiwja Reddy Korenda)

198 - Secure Key Generation from Challenge-Response Pair Mechanisms with Commercial MRAM PUFs (Saloni Jain)

51 - The Comparison of Random Forest and XGBoost in Malicious Browser Extensions Detection in Google Chrome Based on the Feature Importance (Jizhou Tong)

274 - Towards Establishing the Role of LLMs in Botnet Detection (Sean T Miller)

29 - Graph-Powered Mining and Analysis of SELinux Security Policies (Amir Eaman)

Session 16: Deep Learning
November 15 | 03:45 PM - 05:00 PM

341 - Reinforcement Learning of Emerging Swarm Technologies (Afnan M. Alharbi)

316 - Simulating Extreme Precipitation Phenomena Through Generative Adversarial Networks: Advancing Hydroclimatic Understanding (Yiyang Luo)

18 - Speech Enhancement (Connie Zhu)

91 - Towards Accurate Detection of Diabetic Retinopathy using Image Processing and Deep Learning (T.Sanduni Kumari Lanka Fernando)

257 - A DNN Model-Based Behavioral System for Injury Detection and Rehabilitation (Sarra Abidi)

319 - Gun Detection in Images Using Convolution Neural Networks (Ramoni O. Lasisi)

Session 17: Technology Trends
November 15 | 03:45 PM - 05:00 PM

256 - To Share or Not to Share (Leena Alghamdi)

279 - Adopting Digital Technologies in Construction and Demolition Waste (C&DW) Management (Kenneth Otasowie)

200 - A Comprehensive Study of BIM for Infrastructural Crack Detection and the Vital Strategies (Samuel Adekunle)

130 - Towards Mixed Reality as the Everyday Computing Paradigm (Amir Reza Asadi)

153 - Analyzing the Impact of Emotional Intelligence on Leadership in Construction 4.0 (Peter Adekunle)

49 - Developing a Blockchain Based Supply Chain CO2 Footprint Tracking Framework Enabled by IoT (Omid Fatahi Valilai)

259 - TandaPay Whistleblowing Communities: Shifting Workplace Culture Towards Zero-Tolerance Sexual Harassment Policies (Joshua Davis)

Session 18: Computing
November 15 | 03:45 PM - 05:00 PM

415 - Practical Quantum Combinatorial String Matching (Francesco Pio Marino)

117 - Spectrum Serenade: OPNET Expedition Unveiling WLAN 802.11e Performance Evaluation (Ali Mohd Ali)

406 - Tamil-Based Mobile Application for the Identification of Anthurium Plant Diseases (Selveraja Rasikadevi)

413 - TCAD Electrothermal Analysis of 3D GAAFET Structures for Future VLSI Circuits (Konstantin O. Petrosyants)

441 - The Design and Development of School Cooperative System (Check-Yee Law)

384 - WIRE: Write Energy Reduction via Encoding in Phase Change Main Memories (PCM) (Apoorva Rumale)