Agenda - Computing Conference 2024 (Virtual)
11-12 July 2024 | London, United Kingdom

computing
conference 2024

TIME (London) BST/UTC+1	Thu July 11	Fri July 12
09:00 AM	Delegates Login	Delegates Login
09:30 AM - 11:00 AM	Opening + Keynote Talks • Giancarlo Guizzardi (University of Twente) • Chris Mitchell (Royal Holloway, University of London)	Keynote Talks • Liangxiu Han (Manchester Metropolitan University) • John Shalf (Lawrence Berkeley National Laboratory)
11:00 AM - 11:30 AM	Break	Break
11:30 AM - 12:30 PM	Paper Presentations	Paper Presentations
12:30 PM - 01:30 PM	Lunch	Lunch
01:30 PM - 03:15 PM	Paper Presentations	Paper Presentations
03:15 PM - 03:30 PM	Break	Break
03:30 PM - 05:00 PM	Paper Presentations	Paper Presentations
05:00 PM Onwards		Conference Closing

Computing Conference 2024 | Day 1 - July 11, 2024

Session 1: Machine Learning
July 11 | 11:30 AM - 12:30 PM

186 - A Ride-Hailing Company Supply Demand Prediction Using Recurrent Neural Networks, GRU, and LSTM (Sahand Fathi)

199 - Cardiac MRI Semantic Segmentation for Ventricles and Myocardium Using Deep Learning (Racheal Mukisa)

176 - Categorizing Philanthropic CSR Activities Through Hybrid Approach of Fuzzy Clustering and Topic Modeling (Nik Siti Madihah Binti Nik Mangsor)

253 - DeepFake Detection Using Deep Learning (Nazneen Mansoor)

251 - Problems of Building Digital Twins of Escalators at Subway Stations Based on Machine Learning (Alexey Subbotin)

Session 2: Security
July 11 | 11:30 AM - 12:30 PM

82 - Simulation and Analysis of Cyber-Attack on Modbus Protocol for Smart Grids in Virtual Environment (Shampa Banik)

327 - Characterization of ReRAM Arrays Operating in the Pre-Formed Range to Design Reliable PUFs (Taylor Wilson)

17 - Investigating Privacy and Security of LinkedIn Via Forensics Analysis (Ahmad Ghafarian)

7 - Introduction of Steganography to Improve the Security of Transmitted Data (Olga Manankova)

233 - Secure Content Protection Schemes for Industrial IoT with SRAM PUF-Based One-Time Use Cryptographic Keys (Saloni Jain)

Session 3: Data Science
July 11 | 01:30 PM - 03:15 PM

88 - Introducing Prediction Concept into Data Envelopment Analysis Using Classifier in Economic Forecast (Zijiang Yang)

210 - Enhancing Explainability in Mobility Data Science Through a Combination of Methods (Georgios Makridis)

174 - Cross Approach Between Modern Artificial Intelligence and Emergency Medicine: A Review (Kokou Iaris Edjinedja)

187 - Kernelized Extension for Multiple-Expert-Learning Classifiers Using Support Vector Machines (Diego h Peluffo-Ordóñez)

34 - Designing a Technical Framework for Enabling Enterprise AI Adoption (Nica Human)

32 - Offensive Language Detection from Arabic Texts (Arafat A. Awajan)

283 - Suicide Ideation Prediction Through Deep Learning: An Integration of CNN and Bidirectional LSTM with Word Embeddings (Christianah Oyewale)

190 - An Analytical Investigation into the Impact of Product Color on the Price of Retail Products and Purchasing Decisions of Consumers (Zaid Altukhi)

Session 4: Computing
July 11 | 01:30 PM - 03:15 PM

175 - Development of UX Evaluation Tool in Digital Media Content Production: Focusing on the Mobile Environment (Sokjong Jang)

62 - Efficient Graph Encoder Embedding for Large Sparse Graphs in Python (Xihan Qin)

70 - Predictive Savings Service (Ventsislav Nikolov)

290 - Malaysian Local Fruits E-Marketplace System with Intelligent Promotional Feature (Check-Yee Law)

269 - Computing VUCA Way (Shuichi Fukuda)

331 - Energy Aware Workload Scheduling Metrics for Execution of Parallel Application in Heterogeneous Cloud Computing Platform (Divyaprabha K N)

83 - Is it Time for a Borderless Real Estate Platform? (Walter Odhiambo)

Session 5: Data Science
July 11 | 03:30 PM - 05:00 PM

312 - SGAN: Appliance Signatures Data Generation for NILM Applications Using GANs (Christina Gkoutroumpi)

25 - Cost Optimisation in Offshore Wind Through Procurement Data Analytics (Chinedu Pascal Ezenkwu)

259 - Comprehensive Feature Selection Methods for Predicting Diabetes and Stroke Risk (Alexander Iliev Iliev)

275 - Prediction of Load Time in Web Services for Different Agent Locations and Browsers for Mobile Devices (Jolanta Wrzuszczak-Noga)

319 - A Survey on the Usage of Centrality Measures in Error Prediction (Péter Marjai)

51 - Data Analysis, Socioeconomic Development and Communication of the Sugar Industry (Lilian Molina)

204 - GraphRank Pro+: Advancing Talent Analytics Through Knowledge Graphs and Sentiment-Enhanced Skill Profiling (Chandrashekar Muniyappa)

73 - Feature Selection Strategy for Short Term Electricity Consumption Forecasting (Marcia Hon)

Session 6: Computer Vision
July 11 | 03:30 PM - 05:00 PM

24 - SSIVD-Net: A Novel Salient Super Image Classification and Detection Technique for Weaponized Violence (Toluwani Aremu)

35 - Flight Plan Optimization, Scanning and 3D Reconstruction Using an Unmanned Aerial Vehicle (Andrija Bernik)

48 - Text Extraction and Recognition in Manga Comics Using Image Processing Techniques (Mohamed Al-Ibrahim)

238 - Gender Identification Using 2D Ear Biometric (Lavanya Srinivasan)

98 - Vehicular Connectivity Analysis Using Enhanced Quality Slotted ALOHA (EQS-ALOHA) (Mahmoud Zaki Iskandarani)

123 - CollaVRation: An Immersive Virtual Environment for Collaborative Software Development (Peter Kapec)

227 - Geo-Tagged 3D Geometric Modeling of Urban Structures by Mitigating Reflected GPS Signals Using a Laser Range Sensor (Ashwani Kumar)

262 - Multi-Camera Tracking Based on Spatio-Temporal Association in Small Overlapping Regions (Lap Quoc Tran)

Computing Conference 2024 | Day 2 - July 12, 2024

Session 7: Machine Learning
July 12 | 11:30 AM - 12:30 PM

357 - Applying Formal Methods to Elicit Specifications for Grid Data Analysis Applications Using Machine Learning Algorithms (Hannah Vinitha Subburaj)

30 - Weak Relation Enforcement for Kinematic-Informed Long-Term Stock Prediction with Artificial Neural Networks (Stanislav Selitskiy)

105 - A Modified Ant Colony Optimization with KNN for High-Dimensional Data Classification (Gideon Olasunbo Popoola)

394 - Multi-Modal Deep Learning for Detecting Toxicity in Transcribed-Audio Conversations (Ismail El Sayad)

255 - Sybil Attack Detection in VANETs Using CatBoost Classifier (EL Mehdi Fdil)

Session 8: Security
July 12 | 11:30 AM - 12:30 PM

139 - Decentralized Privacy-Preserving Solution Through Blockchain Smart Contracts and Spatial Cloaking for Ride Sharing Application (Aulia Arif Wardana)

33 - Examining the Privacy and Security of Mobile Refugee Applications (Suzanna Schmeelk)

324 - Enhancing True Random Number Generation in MRAM Devices Through Response Adjustment (Saloni Jain)

375 - DeepPayAuth: User Authentication in Mobile Payments Using Smartwatch Motion Sensors (Richard Matovu)

268 - An Anomaly Detection Framework for IIoT-Based Smart Farming Systems (Muaaz Noor)

Session 9: Artificial Intelligence
July 12 | 01:30 PM - 03:15 PM

286 - A Trust Model for Informed Agent Collaboration in Complex Tasks (Ricardo Manuel Pacheco Barbosa)

60 - Performance Analysis of Synthetic Events Via Visual Object Trackers (Sajid Javed)

344 - Selective Coordination Study in a Renewable Energy-Based Microgrid (Matthew Zorumski)

396 - An Intelligent Environment Application Case to Manage Comfort Preferences, at an University Residence (Pedro F Oliveira)

191 - A Comprehensive Literature Review on Slope Entropy Algorithm: Bridging Past Insights with Future Directions (Juan Segui Moreno)

352 - AI Based Commercial Decisions: The Cryptocurrency Market Case (Shnaps-Jehuda Domb-M)

378 - ChatGPT and Artificial Intelligence in Higher Education: Literature Review Powered by Artificial Intelligence (Andrija Bernik)

412 - Need for Cultural Sensitivity in the Design and Development of Technology to Aid in Dementia Care: A Review of Literature (Arshia Khan)

229 - Beyond Segmentation: Road Network Generation with Multi-Modal LLMs (Sumedh Rasal)

Session 10: Computing
July 12 | 01:30 PM - 03:15 PM

59 - Benchmarking Metaheuristic-Integrated QAOA Against Quantum Annealing (Arul Rhik Mazumder)

118 - Quantum Circuits for Fixed Matching Substring Problems (Caterina Viola)

155 - Model-Free Adaptive Fault-Tolerant Control for Offshore Wind Turbines (Silvio Simani)

284 - Inter-Qubit Correlation of Readout Noise in Near-Term Quantum Devices (Debasis Sadhukhan)

358 - Complexity Classification of Complex-Weighted Counting Acyclic Constraint Satisfaction Problems (Tomoyuki Yamakami)

165 - Digital Inclusion and Longevity: Evaluating the Usability of Emerging Technologies for the Elderly (Edesio Marcos Slomp)

15 - True Random Numbers from Pairs of SRAM Devices (Saloni Jain)

Session 11: Artificial Intelligence
July 12 | 03:30 PM - 05:00 PM

112 - Leveraging AI Language Models for Designing Contextually Responsive Built Environments (Sam Sabah)

189 - CRISP-DM User Mobility Determined IoT Placement Within a Real-World Smart Building for Resource Efficient Fog Computing Environments (Kelvin Lawal)

69 - A Comparative Study on Plant Diseases Using Object Detection Models (Ziaul Hossain)

296 - Detecting COVID-19 in Computed Tomography Images: A Novel Approach Utilizing Segmentation with UNet Architecture, Lung Extraction, and CNN Classifier (Esra Kaya Ayana)

201 - Attention U-Net Oriented Towards 3D Depth Estimation (Leonel Jaime Ocsa Sánchez)

101 - Application of Speech Signal for Early Screening of Children with Autism Spectrum Disorder (Nguyen Cong-Phuong)

392 - Action Unit Recognition: Leveraging Weak Supervision with Large Loss Rejection (Hima Vadapalli)

194 - Engineering Research Strategies for Investigating Long-Term Automation Effects, Behavioural Adaptation and Change Processes: Experts' Views (Naomi Y. Mbelekani)

Session 12: e-Learning
July 12 | 03:30 PM - 05:00 PM

161 - Designing an Automated Machine Learning Approach for Transformer Architecture in Education and Non-STEM Research Settings (Luke Gassmann)

137 - Introducing a High School Student to Systems Programming Via Bare Machine Computing (Alex Wijesinha)

231 - Accessibility of Online Educational and Scientific Resources (Todor Todorov)

337 - Making Learning Effective on Smart Mobile Online Educational Games (Eng Bah Tee)

315 - A Combined Competency-Based and Design-Based Research (DBR) Approach to Curriculum Development: Implications for Information Technology (IT) Programs (Grant Royd Howard)

402 - Students' Perceptions of ChatGPT in Education: A Rapid Systematic Literature Review (Belinda Mutunhu Ndlovu)

399 - Affect Analysis: A Literature Survey on Student-Specific and General Users' Affect Analysis (Hima Vadapalli)

236 - Towards Blended Learning: Students' Perceptions and Experiences of Mobile Learning in South Africa (Vusumzi Funda)