

Agenda - Computing Conference 2024

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 Check-in	Delegates Arrive
09:30 AM - 11:00 AM	Opening + Keynote Talks <ul style="list-style-type: none">Giancarlo Guizzardi (University of Twente)Chris Mitchell (Royal Holloway, University of London)	Keynote Talks <ul style="list-style-type: none">Liangxiu Han (Manchester Metropolitan University)John Shalf (Lawrence Berkeley National Laboratory)
11:00 AM - 11:30 AM	Poster Presentations Networking Break	Networking Break
11:30 AM - 12:30 PM	Paper Presentations Tutorial	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	Networking Break	Networking Break
03:30 PM - 05:00 PM	Paper Presentations	Paper Presentations
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 8 PM)	Conference Closing

Computing Conference 2024 | Day 1 - July 11, 2024

Session 1: Machine Learning July 11 11:30 AM - 12:30 PM Chiswick Ballroom Session Chair: Anthony Melaragno	Session 2: Security July 11 11:30 AM - 12:30 PM Hogarth Suite Session Chair: Ruben Xing	Tutorial July 11 11:30 AM - 12:30 PM Devonshire Suite
18 - Systematic Review of Machine Learning in Recommendation Systems Over the Last Decade (Phoey Teh) 104 - Predicting Suicide Cases Using Deep Neural Network (Shabnam Esfahlani) 184 - Deep Feature Discriminability as a Diagnostic Measure of Overfitting in CNN Models (Sikha OK) 350 - Analysis of the Computational Complexity of Backpropagation and Neuroevolution (Michael C Weeks) 342 - Sentiment Analysis of Post-COVID-19 Work-From-Home Culture: A Literature Review (Joseph Kwame Adjei)	185 - Optimizing Energy States in Mobile Embedded Systems: A SIPN-Based Approach (Daniel Peters) 249 - Feasibility Study with Actual Space Rockets Towards Information Theoretically Secure Radio Communication (Sumio Morioka) 258 - FlexHi: A Flexible Hierarchical Threshold Signature Scheme (Muhammed Ali Bingol) 124 - Security Gaps in the Mobile Money System in Rwanda: Challenges, Risks and Mitigation (Catherine Wambui Nogu) 299 - A Community Security Operations Centre (ComSOC) Model for SMMEs in Developing Countries (Nombeko Ntingi)	Leveraging Technology Tools to Foster Active Learning in Statistics and Mathematics Courses All STEM faculty teaching online or face-to-face would benefit from the session. Attendees will also have the opportunity to share their success story from their courses during the session. (Mario Toussaint, Sher Chhetri)

Session 3: Data Science July 11 01:30 PM - 03:15 PM Chiswick Ballroom Session Chair: Ruben Xing	Session 4: Computing July 11 01:30 PM - 03:15 PM Hogarth Suite Session Chair: Stephane Chretien
23 - Human-Created and AI-Generated Text: What's Left to Uncover? (Phoey Teh) 26 - AraXLM: New XLM-RoBERTa Based Method for Plagiarism Detection in Arabic Text (Mona Alshehri) 39 - Strategic Omissions and Theoretical Analysis of Big Data (Ruben Xing) 126 - The Role of Chatbots in Data Analytics (Sowgol Shooshtarian) 130 - RBF-SC: A Fast Community Detection Technique Using Radial Basis Functions (Lina Wu, Jia Liu) 133 - Improving Medication Prescription Strategies for Discordant Chronic Comorbidities Through Medical Data Bench-marking and Recommender Systems (Tom Ongwere) 228 - Sentiment Analysis for Predicting the Variation Trend of Stocks: A Case Study of Vanke Co., Ltd. (Jin Zheng) 96 - Investigating Machine Learning Techniques Used for the Detection of Class Noise in Data: A Systematic Literature Review (Cindy Van Den Berg)	349 - Optimizing E-Sports Revenue: A Novel Approach to Predicting Merchandise Sales Through Data Analytics and Machine Learning (Md Abu Sufian) 85 - Analyzing the Influence of Processor Speed and Clock Speed on Remaining Useful Life Estimation of Software Systems (Mohammad Rubyet Islam) 44 - Computing the Shortest Vector in a Lattice Using the Alternating Direction Method of Multipliers (Stephane Chretien) 80 - An Algorithm for Detecting Sentence Validity (Ashley Suchy, Charles DeGennaro) 374 - Faster Lock-Free Atomic Shared Pointers (Jörg Peter Schäfer) 393 - CICO2e: A Compute Carbon Footprint Estimation Tool Based on Time Series Data (Christian Plewnia) 298 - Process for the Identification of Vehicle Functions for Cloud Offloading (Martin Sommer) 22 - Quantum Iterative Algorithm for Linear Systems of Equation (Debasish Roy)

Session 5: Data Science

July 11 | 03:30 PM - 05:00 PM | Chiswick Ballroom

Session Chair: Kohei Arai

- 336 - High Dimensional Computing Approach to Detection and Learning Gesture Biometrics (Anthony Melaragno, William Casey)
- 308 - A Multi-Clustering Unbiased Relative Prediction Recommendation Scheme for Data with Hidden Multiple Overlaps (Michal Chalamish)
- 369 - An Unsupervised Deep Learning Model for Aspect Retrieving Using Transformer Encoder (Arijit De)
- 66 - IntentRec: An Advanced Recommender System Leveraging User-Item Intent (Niladri Chatterjee)
- 154 - Identifying Potential Customer Using Graph Social Media Analytics (Noryanti Muhammad)
- 27 - Boosting Customer Retention in Pharmaceutical Retail: A Predictive Approach Based on Machine Learning Models (Henry Roa Marin)

Session 6: Computer Vision

July 11 | 03:30 PM - 05:00 PM | Hogarth Suite

Session Chair: Shabnam Sadeghi Esfahlani

- 200 - Virtual Avatar Movement Veracity and its Effect on Social Interaction in Virtual Reality (Mira Ram)
- 240 - Wild Animal Recognition Using an Edge Device (Augusto Tortora)
- 277 - Using BI-RADs Breast Lesion Features-Based Classification for Breast Detection in Ultrasound Images (Haythem El-Messiry)
- 391 - Infrared Thermography to Assess the Upper Body Temperature of a Person with Poland Syndrome Type II After a Training Plan (Irving A. Cruz-Albarran)
- 4 - Real Time State Detection of a Foosball Game Using CNN-Based Computer Vision (Ronny Horst, David Hagens)
- 192 - Automatic Detection of Optic Disc and Fovea From Colour Fundus Images (M. Elena Martinez-Perez)

Computing Conference 2024 | Day 2 - July 12, 2024

Session 7: Machine Learning

July 12 | 11:30 AM - 12:30 PM | Chiswick Ballroom

Session Chair: Shabnam Sadeghi Esfahlani

- 368 - Indoor Obstacle Avoidance System Design and Evaluation Using Deep Learning and SLAM-Based Approaches (Abdelwadoud Benbekhma)
- 406 - Hybrid CNN Models for Plant Species Recognition and Disease Detection (Sherly K K)
- 107 - Decoding Philippine Grocery Receipt Item Names Using K-Nearest Neighbor Search and Long Short-Term Memory Network (Reginald Neil C. Recario, King James Zoren C. Tan)
- 140 - Exploring the Concept of Economic Resilience Pre- and Post-2020: A Literature Review Using Text Mining and Sentiment Analysis (Andreea Pernici)
- 92 - Transforming Medical Waste Management Through IoT and Machine Learning: A Path Towards Sustainability (MD Manirul Islam)
- 65 - A Numerical Approach for the Fractional Laplacian Via Deep Neural Networks (Nicolas Valenzuela)

Session 8: Security

July 12 | 11:30 AM - 12:30 PM | Hogarth Suite

Session Chair: V. Sithira Vadivel

- 232 - Analyzing the Effect of Cyber Attacks on Zoned-Microgrid's Voltage Stability (Evan Sage)
- 326 - Determining the Segmentation Type Impact on an ID Card Fraud Detection System (Daniel Benalcazar, Andreina Jimenez)
- 74 - The Impact of Utilising the Amazon AWS Hybrid Deployment Model on Assuring a Secure Migration of a Commercial Web Application into the Cloud (Rafid AlKhannak)
- 273 - Comparative Analysis of Flow and Cardano Blockchains (Ayda Bransia)
- 3 - Cybersecurity Governance in the Medical Ecosystem (Sebastian von Solms)
- 359 - Bibliometric and Visualized Analysis of Scientific Publications on Blockchain Technology in Cybersecurity (Gifty Afriyie)

Session 9: Artificial Intelligence

July 12 | 01:30 PM - 03:15 PM | Chiswick Ballroom

Session Chair: Tom Ongwere

- 20 - AI's Influence on Non-Player Character Dialogue and Gameplay Experience (Phoey Teh)
- 64 - Trustworthy AI: Deciding What to Decide (Jingjing Xu, Caesar Wu)
- 261 - Challenges of Deepfakes (Sandra Kopecky)
- 114 - Head Tail Open: Open Tailed Classification of Imbalanced Document Data (Mark Clement)
- 332 - A Meta-VAE for Multi-Component Industrial Systems Generation (Fouad Oubari)
- 348 - Autoencoder-Based Solution for Intrusion Detection in Industrial Control System (Silvio Russo)
- 160 - Towards Automatic Document Classification Using a Fuzzy Logic Approach (Marina Soledad Iantorno, Karla Munoz Esquivel)
- 150 - A New E-Commerce Model Suggestion of Agricultural Products (Gökçe Yakut, Meltem Eryılmaz)

Session 10: Computing

July 12 | 01:30 PM - 03:15 PM | Hogarth Suite

Session Chair: Sher Chhetri

- 148 - Formal Modeling and Verification of Kafka Producer-Consumer Communication in Mediator (Zhirui Chen)
- 14 - Improving Employee Well-being of Members of Information Systems Project Team Through Trust (Emmanuel E S Mtsweni)
- 86 - Video Conferencing: The Architect's Assistant, a Trailblazing Algorithm for Optimal Technology Choice (Ali Mohd Ali)
- 43 - Smart Workplace Past Covid-19 (Rabail Tahir)
- 321 - Optimised Round Robin with Virtual Runtime for CPU Scheduling (Jagriti Bhatia, Sanskriti Mathuria)
- 311 - The Influence of Social Competencies on the Performance of Software Project Team: Political Competency (Ephraim Bogopa)
- 382 - Application of Cloud Computing in Organizational Structure (Isaac Ampofo)
- 295 - Theory of Programming Adoption (Isaac Ampofo)

Session 11: Artificial Intelligence

July 12 | 03:30 PM - 05:00 PM | Chiswick Ballroom

Session Chair: Sandra Kopecky

- 267 - Mitigating Cache Pollution Attack Using Deep Learning in Named Data Networking (NDN) (Mohd Maizan Fishol Hamdi)
- 50 - Identification of A.I. Generated Deep Fake Video by Higher Education Students (Kristiyan Delchev)
- 276 - Enhancing Pilgrim Safety During Hajj (Nihal Abuzinadah)
- 36 - An Investigation into AI-Generated Art Through GANs and ML Neural Network (Jean Claude Sacco)
- 257 - Enhancing Email Urgency Reply Prediction with ATAN-Transformer Fusion (Taiwo Ayodele)
- 287 - The Advanced Optimal Control Problem and Approach to its Numerical Solving (Askhat Diveev)
- 234 - A Model of Heterogeneous Display Component for Cyber-Physical Systems Simulation (Feredj Mohamed)

Session 12: e-Learning

July 12 | 03:30 PM - 05:00 PM | Hogarth Suite

Session Chair: Sher Chhetri

- 351 - Personalized Student Performance Prediction Modeling for Student Digital Twins (Emmanuel Nsiye)
- 354 - Immersive Environments at School: "Stop Cyberbullying by Proximity" (Cristina Sánchez Romero, Eva María)
- 131 - A Comparison of Student Engagement Across Three Teaching Modalities in an Introductory Statistics Course (Mario Toussaint, Sher B. Chhetri)
- 265 - Impact Factor Game Scoring Model for Positive Emotion Game Design (V. Sithira Vadivel)
- 188 - Exploring Perceptions of Children's Learning Stress for Stress Management (Pinhao Wang)
- 266 - Cyber Safety Awareness Through a Massive Open Online Course (MOOC): Community Engagement Knowledge Transfer (Elmarie Kritzinger)
- 81 - A Social Profile-Based Recommendation Architecture for E-Learning Systems (Xola Ntlangula)