Agenda - Future Technologies Conference 2023 (Virtual Agenda)
2-3 November 2023

FTC 2023

TIME (San Francisco) PDT/ UTC-7	Thu Nov 2	Fri Nov 3
09:00 AM - 09:30 AM	Login	Login
09:30 AM - 11:00 AM	Conference Opening + Keynote Talks • Tom Mitchell, Carnegie Mellon University • Derek Hoiem, University of Illinois	Day Opening + Keynote Talks • Flavio Villanustre, LexisNexis Risk Solutions • Sergei Gorlatch, University of Muenster
11:00 AM - 11:30 AM	Virtual Roundtable	Break
11:30 AM - 12:30 PM	Paper Presentations	Paper Presentations
12:30 PM - 01:30 PM	Break	Break
01:30 PM - 03:30 PM	Paper Presentations	Paper Presentations
03:30 PM - 03:45 PM	Break	Break
03:45 PM - 05:15 PM	Paper Presentations	Paper Presentations
05:15 PM Onwards	-	Conference Closing

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FTC 2023 | Day 1 - November 2, 2023

Session 1: Blockchain
Nov 2 | 11:30 AM - 12:30 PM

370 - DBTS: Distributed Blockchain-based Trust Scheme for Data Privacy and Security in Smart Cities (Raja Waseem Anwar)

116 - The Impact of Blockchain Technology in Public Services: Lessons Learned (Uwe Roth)

303 - Blockchain Technology Adoption in Construction Projects Logistics in South Africa: Militating Factors (Otasowie Kenneth)

302 - Exploring the Drivers of Blockchain Technology Adoption in Construction Project Logistics: A Case of South Africa (Otasowie Kenneth)

376 - Blockchain Technology as a Catalyst for a Sustainable and Efficient Green Hydrogen Supply Chain (Volker Wannack)

375 - Blockchain-Enhanced Distributed Storage for Cloud-based Video Streaming: Enhancing Security and Scalability (Mahmoud Darwich)

Session 2: Large language models (LLMs)
Nov 2 | 11:30 AM - 12:30 PM

177 - An Exploration of the Potential of Large Language Models to Enable Cognitive Flexibility in AI-Augmented Learning Environments (Sarah Chauncey)

147 - A Comparative Survey of Open-source Platforms for Chat-based Generative AI (Pavan Kumar Kurivella, Paula Lauren)

155 - Application of Artificial Intelligence in Mental Healthcare: Generative Pre-Trained Transformer 3 (GPT-3) and Cognitive Distortions (Deniz Nazarova)

27 - Post-LLM Academic Writing Considerations (Xavier-Lewis Palmer)

279 - Exploring Saudi Higher Education Issues by using Sentiment Analysis of Saudi Dialect Tweets (Waleed Alghaith)

Session 3: Deep Learning
Nov 2 | 01:30 PM - 03:30 PM

164 - LaksNet: An End-to-End Deep Learning Model for Self-Driving Cars in Udacity Simulator (Youshan Zhang)

242 - Performance Evaluation of Swin Vision Transformer Model using Gradient Accumulation Optimization Technique (Sanad Aburass)

16 - Computational Empathy using Facial Emotion Recognition (Khalid Alharbi)

380 - Classification and Characterization of EEG Biomarkers to Predict Parkinson's Disease Through Quantitative Feature Analysis using Deep Learning (Vatsal Sivaratri)

274 - Impact of Learning Rate on Noise Resistant Property of Deep Learning Models (Lijun Qian)

383 - Third Generation Neural Nets and Their Applications in Multi-Modal Deep Learning: A Survey (Ismail El Sayad)

394 - Neuroevolution-based Fine Tuning of the Quantised Deep Learning Models (Marcin Pietron)

7 - A Deep Learning Approach to Predict Batting Strikes Played by a Batsman for Different Bowling Deliveries (Akna Lakmini Delgodaarachchi)

Session 4: Ambient Intelligence
Nov 2 | 01:30 PM - 03:30 PM

96 - Improving Indoor Tracking Accuracy Through Sensor Fusion: A Low-Cost, Neural Network-assisted Visual System for Real-time Position Estimation (Houlin Chen)

143 - Electronic Nose Architecture for Tomato Data Collection (Lionel Affognon)

350 - Design of a Measurement and Control System for Electricity Generation from a Photovoltaic System in the Department of Meta (Obeth Hernan Romero Ocampo)

23 - Meta-Heuristic Algorithms in IoT-based Application (Alaa Hassan)

334 - Gendered Voices Effect in Social Drones (Hwayeon Kong)

283 - Analysis of the Effects of Environmental and Operational Factors on the Performance of Photovoltaic (PV) Systems (Sara K. Alruzaiqi)

354 - Developing an Intelligent Prediction Model for Dementia from Baseline and Time Series (Samara Banno)

362 - A Systematic Review for Privacy-preserving Challenges of Blockchain-based IoT Networks (Mnar Saeed Alnaghes)

Session 5: Computer Vision Nov 2 | 03:45 PM - 05:15 PM	Session 6: Data Science Nov 2 | 03:45 PM - 05:15 PM
287 - Characterization of Flexible Drive Systems using CAD Modeling and Simulation (Rached Dhaouadi)	221 - Identifying Candidate Biomarkers for Alzheimer's Disease Diagnoses using Saliva 1H NMR-based Metabolomics (Oriehi Anyaiwe)
357 - Sliding Mode Control for UAV Trajectory Tracking: Focus on Virtual Learning Environments (Jessica Ortiz)	341 - A New Query Expansion Algorithm for Enriching the AGROVOC Vocabulary (María Taboada Iglesias)
95 - Acceptance: VR Use in an Interior Design Studio Course (Diane Guevara)	144 - Uncovering Anime Insights: Enhancing Classification Models Through Decision Trees and TF-IDF Embeddings (Hongyi Fang)
93 - Effect of Age-Progressed Avatars on Savings Behaviors for Retirement in Young People (Daniel McCloskey)	206 - Building Socially-Impactful Domain Knowledge Applications using Graph Neural Networks (Bernard Lee)
278 - Semi-supervised Single-shot Object Detection for Table Detection in Scanned Documents (Xishuang Dong)	141 - MF-SET: A Multitask Learning Framework for Student Evaluation of Teaching (Sabur Butt)
312 - Education Robotics in Virtual Environment (Veronika Stoffova)	169 - The Artificial Intelligence Domain in Portugal: An Analysis Through a Bibliometric Methodology (Paulo Tome)
249 - Augmenting Beyond the Physical: DMUConstellation, a Mixed Reality Exhibition Experience that Promotes Participatory Engagement and Distributed Access (Tatjana Crossley)	183 - Robot Manipulator Applied to Bottle Filling Processes: An Approach in the Teaching-Learning Process (Jefferson Nuñez)
222 - Meaningful Learning Processes of Service Robots Through Virtual Environments (Alex Guanopatin)	174 - Exploratory Data Analysis and Prediction of Human Genetic Disorder and Species using DNA Sequencing (Vedanshee Upadhyay)

FTC 2023 | Day 2 - November 3, 2023

Session 7: Agents and Multi-agent Systems Nov 3 | 11:30 AM - 12:30 PM	Session 8: Communications Nov 3 | 11:30 AM - 12:30 PM
142 - Mathematical Treatment for Real-Time Vehicle Recognition using Traditional Road Surveillance Cameras (Chen Wang)	333 - High Altitude Platform Stations as IMT base Stations (HIBS): Reliability and Availability Analysis (Ogbonnaya Anicho)
346 - A Hybrid Event Log Acquisition Technique in Distributed Systems (Mohammad Amin Yazdi)	62 - Negation and Mental Images (Olesya Tatarovska)
294 - A Holonic Homoiconic Agent-oriented Patricia Trie (Michele Cullinan)	121 - Social Media and Health Misinformation: A Literature Review (Xavier-Lewis Palmer)
33 - Metaverse with the Internet of Things: Convergence of Physical and Cyber Worlds (Alaa Hassan)	103 - Strategic Role of Trust in Digital Communication: Critical Insights into Building Organizational Sustainability (Miftachul Huda)
157 - An Explainable Intrusion Discovery Framework for Assessing Cyber Resilience in the Internet of Things Networks (Mohammed Tanvir Masud)	38 - Detection Performance Analysis of Cooperative Spectrum Sensing UFMC-based Cognitive Radio for 5G System (Fikreselam Gared mengistu)
228 - An Agent-based Model for Studying Effects of Mosquito Bites Protection and the Intra-host Treatment on the Malaria Transmission (Paul Python Ndekou Tandong)	268 - Utilizing FTP Procedures to Improve Sustainable Service using IEEE 802.11 Technologies (Ali Mohd Ali)

Session 9: Security
Nov 3 | 01:30 PM - 03:30 PM

165 - Uses of Artificial Intelligence in Cyber Security to Mitigate DDOS (Safaa Sharif Althagafi)

374 - Computational Approaches to Persuasion Detection and Potential of Use in Social Engineering (Subia Ansari)

47 - Investigate the Suitability of Adversarial Perturbation in Preserving Privacy in the Context of Photos (Srinivas Madhisetty)

57 - Requirements for Work Products for ASPICE and Cybersecurity (Christian Schlager)

81 - Advancements in Industry 4.0 Asset Management: Interoperability and Cyber Security Challenges and Opportunities (Ari Happonen)

180 - Autonomous Vehicle Cybersecurity: A Pre-Test (Leila Halawi)

149 - Relating Network Behavior to Demand-Response During dDOS Attack in the Smart Grid (Rajesh Manicavasagam)

258 - How Zero Trust as a Service (ZTaaS) Reduces the Cost of a Breach (Yuri Bobbert)

Session 10: e-Learning
Nov 3 | 01:30 PM - 03:30 PM

10 - Universal Personal Hybrid e-Learning Design System for University Teachers and Students (Oliver Moravcik)

124 - New Minds, New Methods: Pre-Service Teachers Envision the Educational Future (Jeanette Sjöberg)

204 - Online Collaborative Learning: A Study of Communicative Interactions in a Latin American University Environment (Fernando Moreira)

353 - PySkuwela: An Online Python Learning Tutorial and Mobile Application for Senior High School S.T.E.M. Students Specializing in Information Technology (Rene Christopher R. Tio)

210 - Introducing Coding to Children with Scratch (Check-Yee Law)

386 - Online Exam Proctoring: Challenges, Timeline, and a Proposed Custom Rule-based Online Proctoring Exam Framework (Ahmad Rawashdeh)

193 - Home2edu Education at Your Fingertips (Célio Gonçalo Marques)

336 - Classification of Software Tools Available for Download from Servers Hosted at Educational Institutions (Sylvia Encheva)

Session 11: Artificial Intelligence
Nov 3 | 03:45 PM - 05:15 PM

264 - Real-Time Smart Parking Integration in Intelligent Transportation Systems (ITS) (Mehdi Mekni)

44 - Using Classification Techniques to Accelerate Client Discovery: A Case Study for Wealth Management Services (Ribes Edouard)

298 - Classifying Rhythm Game Chart Difficulty Level using Hidden Markov Models (Arthur P. Caronongan)

317 - A Comparative Study of Hybrid PSO Algorithms for Parameter Identification in Flexible Electric Drive Systems (Rached Dhaouadi)

190 - Visual Question Answering (VQA) on Images with Superimposed Text (Venkat Kodali)

387 - A Fuzzy Model for Analyzing Students' Feedback about e-Learning (Maryam Alzaid)

173 - Semi-Autonomous Gas Detecting Robot (Hazmat Robot) (Mustafa Ayad)

402 - A Scientometric Review of Present and Future Trends of Embedded Systems in the Built Environment (Matthew Ikuabe)

Session 12: Computing
Nov 3 | 03:45 PM - 05:15 PM

337 - Limitation of the Improved CB (ICB) Measure (Sanuthi Vihansa)

215 - Parallel Fingerprint Recognition using Generalized Hough Transform in a Virtual Grid (Abdoulaye Sere)

3 - Towards Sustainable ERP Systems: Bridging the Gap Between Current Capabilities and Future Potential (Marius Langseth)

352 - e-Commerce Solution with Financial Management System and Android Mobile Application (Irish C. Juanatas)

220 - Value Co-creation in Education Services: A Flipped Classroom Approach in EIU University, Vietnam (Thai Doan Dang)

90 - Application of Smart Media in Cultural Heritage Protection (Yang Linyuan)

19 - SW-PCM: Graceful Degradation Support in PCM Main Memories by using Swaption Mechanism (Marjan Asadinia)

212 - Artificial Intelligence (AI) for Early Detection of Depression using Machine Learning (Chioma Ugbaja)