

TIME (San Francisco) PST / UTC -8	Thu Mar 3	Fri Mar 4
05:00 AM - 05:30 AM	Opening Ceremony	Session 9 - Computing Session 10 - Data Science Session 11 - Deep Learning Session 12 - Security and Privacy
05:30 AM - 06:00 AM	Networking	
06:00 AM - 07:00 AM	Keynote - Yonina C. Eldar (Weizmann institute of Science, Israel)	Keynote - Emil Björnson (KTH Royal Institute of Technology, Sweden)
07:00 AM - 07:30 AM	Virtual Roundtable - Probabilistic and Quantum Algorithms Virtual Roundtable - Human-Autonomy Teaming: How can we achieve communication and coordination between humans and autonomous agents?	Virtual Roundtable - Challenges of Time Series Forecasting Virtual Roundtable - Compounding Probability Distributions: a Recent Trend
07:30 AM - 08:30 AM	Keynote - Bill Inmon (Forest Rim Technology, United States)	Keynote - Kwang-Cheng Chen (University of South Florida, United States)
08:30 AM - 10:00 AM	Session 1 - Quantum Computing Session 2 - Data Science Session 3 - Machine Learning Session 4 - Human-centric Computing	Session 13 - Computing Session 14 - Data Science Session 15 - Machine Learning Session 16 - Ambient Intelligence
10:00 AM - 10:30 AM	Virtual Roundtable - When should we adopt post quantum cryptography to replace legacy asymmetrical schemes such as RSA and ECC?	Virtual Roundtable - XR community -- human machine consciousness
10:30 AM - 11:30 AM	Session 5 - Blockchain Session 6 - Communication Session 7 - Networking Session 8 - Security and Privacy	Session 17 - Cryptography Session 18 - Data Science Session 19 - Deep Learning Session 20 - Security and Privacy
11:30 AM - 12:00 PM	Day Closing	Closing Ceremony

Paper Presentations

Mar 3, 2022 | 08:30 AM - 10:00 AM (SAN FRANCISCO TIME | PST/ UTC-8)

Session 1 - Quantum Computing	Session 2 - Data Science	Session 3 - Machine Learning	Session 4 - Human-centric Computing
<p>239 - Algebraic Properties of the Information Geometry's Fourth Frobenius Manifold (Presenter: Noemie Combe)</p> <p>145 - An Algebraic Geometric Approach to NP Problems (Presenter: Fred Roush)</p> <p>114 - From Quantum Fuzzing to the Multiverse: Possible Effective Uses of Quantum Noise (Presenter: Jeremy Straub)</p> <p>295 - Quantum Implementation of Database Operators and Queries (Presenter: David Song)</p> <p>304 - Comparing Quantum Computing Platforms (Presenter: Avery Leider)</p> <p>306 - A Quantum Architecture based Decoherence Model (Presenter: Lewis Westfall)</p> <p>309 - Quantum Machine Learning Classifier (Presenter: Avery Leider)</p> <p>97 - A Practical Approach to Quantum Circuit Design for Singlet State Preparation (Presenter: István Finta)</p>	<p>105 - Data Ingestion Pipeline and Data Marts to Empower UK Researchers, Academics, and Business and Economic Decision Makers (Presenter: Stephanie Healy Fabrega)</p> <p>236 - Semantic Adaptive Enrichment of Cartography for Intangible Cultural Heritage and Citizen Journalism (Presenter: Mariagrazia Fugini)</p> <p>113 - Seasonality Analysis of US Stock Market (Presenter: Xin James He)</p> <p>169 - The Efficacy of Mask Mandates in Combating the COVID-19 Pandemic (Presenter: Steve Bitner, Zachary Pope)</p> <p>138 - Multi-criteria Assessment of Alternative Solutions in Micro-crediting and Investment in a Portfolio using Fuzzy Methods of Analysis (Presenter: Ramin Rzayev)</p> <p>100 - Ontology-driven Lexicographic Systems (Presenter: Oleksandr Stryzhak)</p> <p>140 - Fuzzy Time Series Forecasting by the Example of the Dow Jones Index Dynamics (Presenter: Fuad Salmanov)</p> <p>60 - Genetic Algorithm for Optimization in Forest Industry Truck Scheduling (Presenter: Oscar Ramirez-Valdez)</p>	<p>248 - Reducing Misclassification due to Overlapping Classes in Text Classification via Stacking Classifiers on Different Feature Subsets (Presenter: Yasmen Wahba)</p> <p>73 - Automatic Detection of Heart Diseases using Biomedical Signals: A Literature Review of Current Status and Limitations (Presenter: Ali Alouani)</p> <p>296 - Trusting the Needle in the Haystack: Cybersecurity Management of AI/ML Systems (Presenter: Sanjana Shukla, José Ignacio Parada)</p> <p>297 - Towards AMS Synthesis in the Era of Machine Learning (Presenter: Alex Doboli)</p> <p>202 - Evaluation of the Off-the-Shelf CNNs for Facial Expression Recognition (Presenter: Mohammad Shokrolah Shirazi)</p> <p>79 - Building a Meta-Agent for Human-Machine Dialogue in Machine Learning Systems (Presenter: Eugene Pinsky)</p> <p>307 - Comparing Different Data Representations and Machine Learning Models to Predict Tennis (Presenter: Arisoa S. Randrianasolo)</p> <p>16 - Prediction of Hydrogen Leakage in Air using Random Forest Technique (Presenter: Mohamed Fathy El-Amin)</p>	<p>221 - Towards a Framework to Gauge the Impact of Internet Radio on Dispersed Communities in the Western Region of Ghana (Presenter: Alexander Braye)</p> <p>305 - Olfactory UIs: New Possibilities for Displaying System and Application States (Presenter: Julius Schöning)</p> <p>156 - The Value of Brain-Computer Interface Measurements when using Ambiguous Search Queries (Presenter: Wynand Nel)</p> <p>2 - SmartDG: Modelling System-Level Requirements for Component-based Robotic Software Systems (Presenter: Christian Schlegel)</p> <p>92 - Towards Model based Electronic Institutions and Contract Regulated Services in a Component-based Robotic Software Ecosystem (Presenter: Vineet Nagrath)</p> <p>190 - Advanced Artificial Intelligence in Contactless Human-Computer Systems through Shared Intentionality (Presenter: Igor Val Danilov)</p> <p>205 - Could IBM's Deep Blue Chess Program Feel Triumphant? (Presenter: Suraj Sood)</p> <p>31 - College of Agriculture and Life Science (CALS) Faculty Professional Development Resource (Presenter: Matthew F. Louvet Sr.)</p>

Paper Presentations

Mar 3, 2022 | 10:30 AM - 11:30 AM (SAN FRANCISCO TIME | PST/ UTC-8)

Session 5 - Blockchain	Session 6 - Communication	Session 7 - Networking	Session 8 - Security and Privacy
<p>63 - Validation Technique for Zero-Knowledge-based Transactions of Blockchain Digital Assets using ASCII Computation Technique (Presenter: Alshihri Saad)</p> <p>310 - Framework for Blockchain-Enabled Building Information Modeling (Presenter: Hui Jiang)</p> <p>213 - The Right to be Forgotten: Privacy and Security in Blockchain with Multi-authority based Chameleon Hash Function MAP-ABCH Solution (Presenter: Arij Alfaidi)</p> <p>196 - Privacy Issues in mHealth Systems using Blockchain (Presenter: Arij Alfaidi)</p> <p>250 - Blockchain Graphs (BCGs) to Support Right-to-be-Forgotten "RTBF" in Blockchains (Presenter: Sudhanshu Kumar Semwal)</p> <p>224 - Blockchain-based System to Support the Authorisation and Execution of the Transport of Dangerous Waste Across Europe (Presenter: Uwe Roth)</p>	<p>58 - Impact of eWoM on Purchase Intension of Insurance Products (Presenter: Nishad Nawaz)</p> <p>33 - A Guide to the Deployment of Global Quantum Key Distribution Networks (Presenter: Jing Wang)</p> <p>71 - Virtualization of Group Communications (Presenter: Dobrinka Peicheva)</p> <p>110 - How are the Issues of Poverty Changing with COVID-19 in South Korea? (Presenter: Do-Won Yoon)</p> <p>285 - Optimizing Stochastic Small Base Station Deployment with Particle Swarm Technique (Presenter: Etinosa Noma-Osaghae)</p> <p>124 - Production Orgitonzation: Some Principles of the Central/Decentral Dichotomy and a Witness Application Example (Presenter: Bernhard Heiden)</p> <p>289 - The Perceptions of Smallholder Farmers on the Use of Mobile Technology: A Naturalistic Inquiry in Zimbabwe (Presenter: Samuel Musungwini)</p>	<p>17 - AmLight Real Time In-Band Telemetry within the NoviFlow Switches (Presenter: Jeronimo Bezerra)</p> <p>13 - Examining Software Defined Networking Adoption by Research and Educational Networks (Presenter: Vasilka Chergarova)</p> <p>258 - Reference Architectures for Cyber-Physical Systems: Towards a Standard-based Comparative Framework (Presenter: Afef Awadid)</p> <p>308 - Design of Distributed Architecture of Refinery Complexes Control Systems by "Al Zour Refinery" Example (Presenter: Maksim Fedorovich Astafurov)</p> <p>70 - HS-GWO: A Hybrid Approach for Virtual Network Embedding in SDN-Enabled Distributed Cloud (Presenter: Abderrahim Bouchair)</p> <p>103 - Anomaly Detection in Software Defined Networks using Ensemble Learning (Presenter: Aleksander Nawrat)</p>	<p>254 - Developing a Framework of Comprehensive Criteria for Privacy Protections (Presenter: Tian Wang)</p> <p>301 - Enhancing the Quality and Security of IoT Software Systems using Cloud-based Vulnerability Detector (Presenter: Zaid Altahat)</p> <p>101 - Cybersecurity Risk Management Frameworks in the Oil and Gas Sector: A Systematic Literature Review (Presenter: Huma Imran)</p> <p>36 - Malicious User Profiling using Honeypots and Deep Learning (Presenter: Roy Levin)</p> <p>217 - Development of a Disinfecting Cubicle with an RFID-based Access Control System (Presenter: Ayoola Olaleye)</p>

Paper Presentations

Mar 4, 2022 | 05:00 AM - 06:00 AM (SAN FRANCISCO TIME | PST/ UTC-8)

Session 9 - Computing	Session 10 - Data Science	Session 11 - Deep Learning	Session 12 - Security and Privacy
<p>155 - Design and Implementation of Relay Nodes in SBC Multi-display System (Presenter: Yuga Takahata)</p> <p>21 - Improving the Knowledge Management Processes Through a Multi-agent Knowledge Audit Framework (Presenter: Salama A. Mostafa)</p> <p>257 - Another DX: What Soccer Teaches Us (Presenter: Shuichi Fukuda)</p> <p>208 - Single Source of Serialization in Distributed Databases (Presenter: Khairul Anshar)</p> <p>288 - The Factors Affecting the Job Choice Intention of Students after Graduation in the Context of COVID-19: International Business Student at the Industrial University of Ho Chi Minh City (Presenter: Nguyen Thi Phuong Giang)</p> <p>218 - Factors Affecting Online Purchase Intention during the Covid-19 Pandemic: Electronic Devices in Ho Chi Minh City: Viet Nam (Presenter: Nguyen Thi Phuong Giang)</p>	<p>293 - Vowel-Oriented String Search Algorithm with Vowel-Oriented Binary Tree (Presenter: Kwang Sik Chung)</p> <p>109 - Differences in Smartphone Overdependence by Type of Smartphone Usage: Decision Tree Analysis (Presenter: Hyesun Hwang)</p> <p>108 - Fire Risk Prediction using Building Information and Machine Learning Methods (Presenter: Tae-Young Pak, Jeongyoon Lee)</p> <p>259 - Factors Affecting Consumers' Perception of Electronic Payment: An Empirical Study on Cambodian Customers (Presenter: Phichhang Ou)</p> <p>15 - Research on Students' Consumption Behavior Patterns (Presenter: Shaojie Qu)</p> <p>237 - Application of Lane Navigation and Object Detection in a Deep-learning Self-driving Car (Presenter: Noah Hanshaw, Daxton Givan)</p>	<p>24 - Gesture based Confidence Assessment System for Visually Impaired People using Deep Learning (Presenter: Amna Mujahid)</p> <p>29 - Survey on Capsule Network's Depth Scalability and Learned Feature Spatial Relationships Retention (Presenter: Ugenteraan Manogaran)</p> <p>315 - Disease Diagnosis with Medical Imaging using Deep Learning (Presenter: Marina Mercioni)</p> <p>280 - Instance-based Transfer Learning Approach for Vietnamese Speech Synthesis with Very Low Resource (Presenter: Tuong Lam)</p> <p>249 - Sales Forecast and Design Generation for Textile Products using Machine Learning (Presenter: Koulo Elwis)</p>	<p>178 - Methods and Techniques of Information Security Risk Management during Assessment of Information Systems (Presenter: Askar Boranbayev)</p> <p>201 - On the Need for a Generic Requirements Engineering Framework for Trustworthy IT Services (Presenter: Steven Schmidt)</p> <p>148 - Internet Crime Enabling: Stalking and Cyberstalking (Presenter: Daniel Trottier)</p> <p>175 - Lattice Puncturable Attribute based Proxy Re-Encryption Scheme and its Application in Information Centric Network (Presenter: Eric Affum)</p> <p>107 - Digital Information Transparency for Cyber Security: Critical Points in Social Media Trends (Presenter: Miftachul Huda)</p> <p>177 - Method and Information Technology to Support Decision-making for Determining the Level of Reliability of Information Systems (Presenter: Askar Boranbayev)</p>

Paper Presentations

Mar 4, 2022 | 08:30 AM - 10:00 AM (SAN FRANCISCO TIME | PST/ UTC-8)

Session 13 - Computing	Session 14 - Data Science	Session 15 - Machine Learning	Session 16 - Ambient Intelligence
283 - Towards a Modelling Framework for Dynamically Reconfigurable Systems using Maude (& Petri Nets) (Presenter: Lorenzo Capra)	157 - Co-embedding: Discovering Communities on Bipartite Graphs through Projection (Presenter: Gaëlle Candel)	294 - Application of Artificial Intelligence Towards Digital Government Establishment (Presenter: Andrey Borevskiy)	166 - A Study on Non-overlapping Multi-agent Pathfinding (Presenter: Mohammad Sina Kiarostami)
76 - A PID Controller Architecture Inspired Enhancement to the PSO Algorithm (Presenter: Jiacong Xu)	35 - The Impact of ICT Use on the Academic Student Performance in Morocco (Presenter: Samira Oukarfi)	251 - Systematic Literature Review of AI/ML Techniques Applied to VANET Routing (Presenter: Daniel Teixeira)	252 - Characterization of a Connected Object by its Acoustic Signature (Presenter: Vantroys)
162 - Sow Localization in Thermal Images using Gabor Filters (Presenter: Mohammed Abuhussein)	99 - Information Asymmetry and e-Tourism: An Empirical Study in Morocco (Presenter: Samira Oukarfi)	154 - Optimization of Production: Literature Review (Presenter: Sahar Habbadi)	227 - User Acceptance of Cognitive Assistance Systems in Smart Factories (Presenter: Bastian Pokorni)
165 - A Computer Vision Toolkit for Adapting a COVID-19 Lifestyle (Presenter: Akshat Bajpai)	137 - Developing and Validating a Model of Intention to Use a Smart Energy Metering System (Presenter: Ahmed Shuhaiber)	174 - Functional Nanomaterials Design in the Workflow of Building Machine-learning Models (Presenter: Zhexu Xi)	102 - Taxonomy and Survey on Remote Human Input Systems for Driving Automation Systems (Presenter: Daniel Bogdoll)
270 - Straight-Line Recognition using a Triangular Grid (Presenter: Abdoulaye Sere)	163 - Principal Colors Extraction using Topological Data Analysis (Presenter: Dmitry Zadorozhniy)	142 - A System for Optimal Products Placement in a Market (Presenter: Ventsislav Nikolov)	45 - Editorial Illustration: An Exploration of Audience Interaction through Time and Space (Presenter: Andrew Selby)
219 - Development of an Educational Web Application with an Architecture base on the Cloud, to Facilitate the Learning Process in Programming Logic through Pseudocode in Kichwa (Presenter: Jean Pineda Pineda Vega)	136 - Regression Model of Successful School Intellectual Activity (Presenter: Yana Ivanovna Sipovskaya)	167 - GreenHubLK: A Machine Learning Driven Solution for Crop Disease Detection and Post-Harvest Crisis (Presenter: Kavindi Gunasinghe U.L.D.)	40 - Moving Control from Ship to Shore: Computer Supported Cooperative Work in Autonomous Shipping (Presenter: Charlott Sellberg)
298 - ArgosMol: A Web Tool for Protein Structure Prediction and Visualization (Presenter: Vicente Enrique Machaca Arceda)	95 - Generation and Semantic Expansion of Impacts in Arts and Culture (Presenter: Petar Kristijan Bogović)	220 - Cartesian Genetic Programming: Some New Detections (Presenter: Thuong Pham Thi)	93 - A Conceptual Framework for Business Model Innovation of South African Smart Aerotropoli (Presenter: John Andrew van der Poll)
211 - A Linear Pathfinding Algorithm for Planning Laser Treatment (Presenter: Ismail Bahkali)	226 - Guided Visual Analysis of Multivariate Time Series (Presenter: Flor de Luz Palomino Valdivia)	22 - Content-based Feature Extraction and Extreme Learning Machine for Optimizing File Cluster Types Identification (Presenter: Rabei Al-Jawary)	41 - Digital and Big Data Initiatives for Smart Cities in Developing Countries: A Socio-technical View for Developing City Contexts (Presenter: Shaun Pather)

Paper Presentations

Mar 4, 2022 | 10:30 AM - 11:30 AM (SAN FRANCISCO TIME | PST/ UTC-8)

Session 17 - Cryptography	Session 18 - Data Science	Session 19 - Deep Learning	Session 20 - Security and Privacy
<p>272 - A Systematic Literature Review: The Taxonomy of Hybrid Cryptography Models (Presenter: Ahmed El Douh)</p> <p>80 - Pixel Attack for CAPTCHA Construction (Presenter: Fabricio Cravo)</p> <p>49 - PUF-Protected Methods to Generate Session Keys (Presenter: Bertrand Cambou)</p> <p>316 - Deep Learning-based Cryptanalysis of Different AES Modes of Operation (Presenter: Milena Gjorgjievska Perusheska)</p> <p>238 - Cybercrime and the Regulation of Cryptocurrencies (Presenter: Mohamed Chawki)</p>	<p>229 - Extended Lomax Distribution with an Application to Cancer Patient Data (Presenter: Sher Chhetri)</p> <p>318 - Medical Image Labeling via Active Learning is 90% Effective (Presenter: Patrick Bangert, Jae Oh Woo)</p> <p>170 - Will you be Vaccinated? A Methodology for Annotating and Analyzing Twitter Data to Measure the Stance Towards COVID-19 Vaccination (Presenter: Ali Almadan)</p> <p>43 - Developing Technology Tools to Combat Fake Science (Presenter: Christopher Impey)</p> <p>164 - Efficiency in Human Actions Recognition in Video Surveillance using 3D CNN and DenseNet (Presenter: Herwin Alayn Huilcen Baca)</p>	<p>232 - That's What She Said: Humor Identification with Word Embeddings and Recurrent Neural Networks (Presenter: Alexander Redei)</p> <p>303 - Exploring Potential Improvement of Daytime Clear-Sky Radiance for VIIRS by using Deep Learning Approach (Presenter: Xingming Liang)</p> <p>112 - Addressing Challenging Problems using Optimized Deep Learning Classification Algorithms on the MNIST Dataset (Presenter: Odai S. Salman)</p> <p>212 - A Comparative Survey of Deep Learning based Techniques and Tools used in Modern Farming (Presenter: Amedeo Carmine)</p> <p>158 - Accelerated Reward Policy (ARP) for Robotics Deep Reinforcement Learning (Presenter: Harry Li)</p>	<p>84 - Statistical Analysis of ReRAM-PUF based Keyless Encryption Protocol Against Frequency Analysis Attack (Presenter: Dina Ghanai Miandoab)</p> <p>115 - Split-QR Decoder Hybrid Design for ARM TrustZone (Presenter: Ammar S Salman)</p> <p>171 - Dynamic Offline TrustZone Virtual Credit Card Generator for Financial Transactions (Presenter: Ammar S Salman)</p> <p>279 - The Information Bank: Information Authenticity with Simultaneous Accountability and Anonymity in the Digital Era (Presenter: Benjamin Barrowes)</p> <p>61 - Using Process Mining to Improve Productivity in Banks (Presenter: Enzo Velasquez-Lobaton)</p>