

TIME (PST/UTC -8)	TIME (UTC)	Thu Nov 5	Fri Nov 6
05:00 AM - 06:00 AM	01:00 PM - 02:00 PM	Opening Session	Keynote - Steven Furnell
06:00 AM - 07:00 AM	02:00 PM - 03:00 PM	Keynote - Bob Sorensen	Paper Presentations
07:00 AM - 08:00 AM	03:00 PM - 04:00 PM	Virtual Roundtables	Virtual Roundtables
08:00 AM - 09:00 AM	04:00 PM - 05:00 PM	Paper Presentations	Paper Presentations
09:00 AM - 10:00 AM	05:00 PM - 06:00 PM	Keynote - Saiph Savage	Keynote - Yingxu Wang
10:00 AM - 11:00 AM	06:00 PM - 07:00 PM	Virtual Roundtables	Virtual Roundtables
11:00 AM - 12:00 PM	07:00 PM - 08:00 PM	Paper Presentations	Paper Presentations
12:00 PM - 12:30 PM	08:00 PM - 08:30 PM	Virtual Roundtables	Virtual Roundtables
12:30 PM - 1:30 PM	08:30 PM - 09:30 PM	Paper & Poster Presentations	Paper Presentations
1:30 PM - 2:00 PM	09:30 PM - 10:00 PM	Happy Hour!	Closing Ceremony

NOTE: This conference will follow PST (Pacific Standard Time). Daylight saving time will not be observed.

Paper Presentations

Thu, Nov 5 | 08:00 AM - 09:00 AM (PST/UTC-8)

Session 1 - Ambient Intelligence	Session 2 - Smart Healthcare	Session 3 - e-Learning	Session 4 - NLP	Session 5 - Software Engineering
477 - EnPower: Haptic Interfaces for Deafblind Individuals to Interact, Communicate, and Entertain	220 - Federated Learning Approach to Support Biopharma and Healthcare Collaboration to Accelerate Crisis Response	291 - Influence of Term Familiarity in Readability of Spanish e-Government Web Information	444 - From Textline to Paragraph: A Promising Practice for Chinese Text Recognition	57 - RiWAArch Style: An Architectural Style for Rich Web-based Applications
314 - Additive Manufacturing: Comparative Study of an IoT Integrated Approach and a Conventional Solution	337 - Healthcare Emergency Room Optimization using a Process Learning Algorithm	249 - Swimming Figures with Robots (Choreography)	426 - Using Natural Language Processing to Translate Plain Text into Pythonic Syntax in Kannada	497 - Usability Engineering Process for Medical Devices
200 - Adaptive Customized Forward Collision Warning System through Driver Monitoring	454 - Sensor Networks and Personal Health Data Management: Software Engineering Challenges	54 - Culturally Themed Educational Tools for Enhancing Learning in Southeast Asian Secondary Schools	348 - Genre Annotation of Web Corpora: Scheme and Issues	95 - Evolution of Push-Communication Towards the Rich Web-Based Applications
453 - Autonomous Landing of a Quadrotor with Wireless Charging	415 - Dynamic Causality Knowledge Graph Generation for Supporting the Chatbot Healthcare System	67 - A Predictive System for Supporting At-Risk Students' Identification	439 - CAPEs Advisory: A Conversational Agent based on NLP Techniques for Professional Examinations Advisory	239 - The ICT Design for Modern Education Technology and Applications
131 - LLWURP: LoRa/LoRaWAN Uniform Relay Protocol with a Single Input, Single Output Device	35 - Computation of Incline Barriers via Smartphone Sensors in the Mobile App WheelScout	257 - Review of Interactive Practices in Online Immigration Museums	352 - Bangla Part of Speech Tagging using Contextual Embeddings and Oversampling Techniques	359 - Does Context Matter? Assessing the Current State of Quality Practice During Software Development in Small Software Companies
105 - An Integrated Low-Cost Monitoring Platform to Assess Air Quality over Large Areas	460 - Framework for an Integrated Ehealth Platform with Smart Diagnostic Engine for Improved Healthcare Access for Rural Dwellers	377 - Correlation of Attention and Relaxation Levels to Interactive Self-Learning Classroom Indexed by eSense Meters	298 - A Systematic Literature Review of Natural Language Processing	475 - The New Role of Cloud Technologies in Management Information Systems Implementation Methodology

Paper Presentations

Thu, Nov 5 | 11:00 AM - 12:00 PM (PST/UTC-8)

Session 6 - Ambient Intelligence	Session 7 - Smart Healthcare	Session 8 - e-Learning	Session 9 - NLP	Session 10 - Communication
341 - JettSen: A Mobile Sensor Fusion Platform for City Knowledge Abstraction	282 - Biofluid-Biostructure Interaction Analyses using Comprehensive Patient-Specific Geometries	384 - Exploring the Impact of using Code Genie to Enhance the Programming Knowledge of Students and Across Genders: Experimental Study	340 - Learning Reddit User Reputation using Graphical Attention Networks	134 - Pervasive Information Architecture in Service Design Blueprints: Walking Tours
74 - No Jitter Please: Effects of Rotational and Positional Jitter on 3D Mid-Air Interaction	350 - Ethical Analysis on the Application of Neurotechnology for Human Augmentation in Physicians and Surgeons	94 - Content-Based Learning Object Recommendation System using a User Profile Ontology for High School Students	490 - Using Sequence to Sequence Model to Transform Recognized ASL Words to Understandable Sentences	389 - Aware Diffusion Routing Protocol with Reliable Data Delivery Provision
469 - THED: A Wrist-Worn Thermal Display to Perceive Spatial Thermal Sensations in Virtual Reality	170 - Detecting Invasive Ductal Carcinoma with Semi-Supervised Conditional GANs	467 - Freedom of Choice: Collaborative e-Learning Environment for IT Professionals	259 - Use of Interpretable Evolved Search Query Classifiers for Sinhala Documents	273 - Exploration of Network Slice Charging in 5G Networks
136 - State Space Modeling of Tie-Line based Microgrid for Implementation of Robust H^∞ Controller	172 - Usability Evaluation of Low-Cost Smart Pill Dispenser by Health Care Practitioners	386 - Creating Technology-Based Mathematics Learning Environments: Extension of Teacher Knowledge and Student Achievement	236 - Binary Text Representation for Feature Selection	219 - On Testing Microservice Systems
486 - Matching Algorithms in Ride Hailing Platforms	103 - Virtual Reality Application to Teach Dangerous over Exposure to UV Radiation	203 - Informally Teaching STEM Concepts using the Forgotten Technology Embodied in Recyclables	306 - Okkhor: A Synthetic Corpus of Bangla Printed Characters	461 - Development of an IoT based Smart Campus: Wide Shuttle Tracking System
445 - cARd: Mixed Reality Approach for a Total Immersive Analog Game Experience	204 - Utilizing Digitized Surveys for Data Collection: The Case of Developing Countries	313 - Web-Based Electricity Cost Modeling for Bangladesh Power Sector to Improve Capacity and Transparency	83 - An Empirical Study of Semantic Mining of Scholarly Papers using Wordnet API	499 - Optimal Polynomial Backoff for IEEE 802.11 DCF

Paper & Poster Presentations

Thu, Nov 5 | 12:30 PM - 01:30 PM (PST/UTC-8)

Session 11 - Ambient Intelligence	Session 12 - Smart Healthcare	Session 13 - Software Engineering	Session 14 - Communication	Session 15 - Posters
66 - A Gait Analysis of a Virtual Reality Inverse Treadmill	191 - Virtual Reality and Visualization of 3D Reconstructed Medical Imaging	60 - Digitalization of the Oil and Gas Industry: Practical Lessons Learned from Digital Responses during the First Stage of the COVID-19 Outbreak	228 - Optimizing Connectivity for the Internet of Vehicles	316 - Asset Administration Shell: Domain Specific Language Approach to Integrate Heterogeneous Device Endpoints
488 - Intelligent Roadways: Learning-Based Battery Controller Design for Smart Traffic Microgrid	442 - Towards Better Remote Healthcare Experiences: An mHealth Video Conferencing System for Improving Healthcare Outcomes	376 - SAI: Sports Analysis and Informatics	7 - Bringing the QR Code to Canada: The Rise of AliPay and WeChatPay in Canadian e-Commerce Markets	104 - Co-Creative Robotic Arm for Differently-Abled Kids: Speech, Sketch Inputs and External Feedbacks for Multiple Drawings
4 - Computer-Vision System for Supporting the Goniometry	2 - Volume Visualization and Beams Towards Computational Cancer Treatment Planning	128 - Design and Experimental Study of a Device that Allows Urban Gardeners to Understand what their Plants may be "Feeling"	137 - Cluster Merging Scheme in VANETs	297 - LightCloud: Future of Dynamic Lighting in the Shared Space
223 - Urban Air Pollution Monitoring by Neural Networks and Wireless Sensor Networks based on LoRa	251 - Development of a Socially Assistive Robot Controlled by Emotions based on Heartbeats and Facial Temperature of Children with Autistic Spectrum Disorder	264 - Code Complexity Metrics Derived from Software Design: A Framework and Theoretical Evaluation	448 - Message Routing and Link Maintenance Augmentation for Robotic Network Connectivity	180 - Developing Blockchain Supported Collective Intelligence in Decentralized Autonomous Organizations
470 - Dreamscape: Using AI to Create Speculative VR Environments		496 - Research on Various Software Development Lifecycle Models	108 - A Machine Learning-Based Migration Strategy for Virtual Network Function Instances	311 - A Software Platform for Use Case Driven Human-Friendly Factory Interaction using Domain-Specific Assets
252 - An Integrated IoT-Blockchain Implementation for End-to-End Supply Chain	1 - Medical Visualization using 3D Imaging and Volume Data: A Survey	387 - Theoretically Validated Complexity Metrics for UML State Machine Models	357 - Use of High Mobility Nodes to Improve Connectivity in Wireless Sensor Networks	414 - The Development Process of a Tooth Brushing App on Android using Movement Direction Detection with OpenCV
	364 - Matching System for Animal-Assisted Therapy based on the Levenshtein and Gale-Shapley Algorithms			

Paper Presentations

Fri, Nov 6 | 06:00 AM - 07:00 AM (PST/UTC-8)

Session 16 - Computing	Session 17 - Artificial Intelligence	Session 18 - Data Science	Session 19 - Machine Learning	Session 20 - Security
279 - Implementation of Modified Talbi's Quantum Inspired Genetic Algorithm for Travelling Salesman Problem on an IBM Quantum Computer	392 - Syntropic Counterpoints: Singularity Dadaism as Novel AI Creative Practice Paradigm	300 - A Disaster Management System on Mapping Health Risks from Agents of Disasters and Extreme Events	323 - Komposer V2: A Hybrid Approach to Intelligent Musical Composition based on Generative Adversarial Networks with a Variational Autoencoder	149 - Proposing Recommendations for Improving the Reliability and Security of Information Systems in Governmental Organizations in the Republic of Kazakhstan
336 - A Generic Scalable Method for Scheduling Distributed Energy Resources using Parallelized Population-Based Metaheuristics	143 - Multimodel Sentiment Analysis with Self-Attention	324 - Jupyter Lab based System for Geospatial Environmental Data Processing	335 - Incorporating Unsupervised Deep Learning into Meta Learning for Energy Time Series Forecasting	3 - 2D Vector Map Fragile Watermarking with RST Invariance and Region Location
77 - Analytical View on Non-Invasive Measurement of Moving Charge by Position Dependent Semiconductor Qubit	69 - A Machine Learning based Framework for Intelligent High Density Garbage Area Classification	99 - StreamNet: A DAG System with Streaming Graph Computing	321 - Predictive Clustering Learning Algorithms for Stroke Patients Discharge Planning	90 - Ethereum Blockchain Enabled Secure and Transparent E-Voting
367 - Factors Affecting Students' Motivation for Learning at the Industrial University of Ho Chi Minh City	391 - Paradigm Shift in Remote Eye Gaze Tracking Research: Highlights on Past and Recent Progress	210 - Data Security Management Implementation Measures for Intelligent Connected Vehicles (ICVs)	49 - Numerical Method for the One Phase 1D Fractional Stefan Problem Supported by an Artificial Neural Network	235 - A Framework of Signature-Matching- Algorithms for IoT Intrusion Detection
363 - Cartesian Genetic Programming for Synthesis of Optimal Control System	224 - A Hybrid Algorithm to Solve Multi-Model Optimization Problems based on the Particle Swarm Optimization with a Modified Firefly Algorithm	362 - Modeling Dependence between Air Transportation and Economic Development of Countries	245 - A Functionally Separate Autoencoder	44 - Suspected Software-Code Restoration using a Dictionary Led System
194 - A Lightweight Association Rules based Prediction Algorithm (LWRCCAR) for Context-Aware Systems in IoT Ubiquitous, Fog, and Edge Computing Environment		459 - Decision Support System for House Hunting: A Case Study in Chittagong	246 - Multi-Attribute Recognition, the Key to Universal Neural Network	197 - An Application of Metacyclic and Miller-Moreno p-Groups to Generalization of Diffie-Hellman Protocol

Paper Presentations

Fri, Nov 6 | 08:00 AM - 09:00 AM (PST/UTC-8)

Session 21 - Computing	Session 22 - Artificial Intelligence	Session 23 - Data Science	Session 24 - Machine Learning	Session 25 - Security
465 - Containers Runtimes War: A Comparative Study	326 - AI as Co-Workers: An Explorative Research on Technology Acceptance based on the Revised Bloom Taxonomy	319 - FLIE: Form Labeling for Information Extraction	50 - Gender Detection on Social Networks using Ensemble Deep Learning	62 - A Self-Reliant Trust Management Model for VANETs
275 - Reverse Engineering: The University Distributed Services	331 - Enabling Drones Collaboration in ITS Applications using a BDI Architecture based on a 5-Dimensional Social Model	354 - OptiShard: An Optimized and Secured Hierarchical Blockchain Architecture	495 - Developing an Automatic Cooperating Neural Networks and Image Standardization Approach for Segmentation of X-Ray Computed Tomography Images	274 - Secure Shared Processing on a Cluster of Trust-Anchors
195 - Towards Traffic Saturation Detection based on the Hough Transform Method	356 - An Agent-Based Study of the Impact of Sensitization on the Spread of Covid 19 in Burkina Faso	289 - Sentiment Analysis to Support Marketing Decision Making Process: A Hybrid Model	463 - Email User Classification and Topic Modeling	281 - Techniques Implemented in Software Protectors: A Journey with DBI through What Protectors Use to Detect Bad Guys
218 - Performance Benchmarking of NewSQL Databases with Yahoo Cloud Serving Benchmark	412 - Constraint Programming as an Approach for Structural Flowsheet Synthesis	37 - Data Analytics-based Maintenance Function Performance Measurement Framework and Indicator	284 - Sales Forecast by using Deep Rectifier Network	299 - A Systematic Literature Review of Smart Contract Applications
125 - Internet of Art: Exploring Mobility, AR and Connectedness in Geocaching through a Collaborative Art Experience	378 - Autonomous Mobile Robot with AI based on Jetson Nano	116 - A Process Mining Approach to the Analysis of the Structure of Time Series	443 - Identification of Drone Payload using Mel-Frequency Cepstral Coefficients and LSTM Neural Networks	240 - Security and Performance Considerations of Improved Password Authentication Algorithm, based on OTP and Hash-Chains
123 - Interview with a Robot: How to Equip the Elderly Companion Robots with Speech?	383 - On the impact of Early Stopping in Multiple Kernel Learning	169 - Blockchain in Charity: Platform for Tracking Donations		157 - Audiouth: Multi-Factor Authentication based on Audio Signal

Paper Presentations

Fri, Nov 6 | 11:00 AM - 12:00 PM (PST/UTC-8)

Session 26 - Computing	Session 27 - Artificial Intelligence	Session 28 - Data Science	Session 29 - Machine Learning	Session 30 - Security
476 - Crowd Management of Honda Celebration of Light using Agent-based Modelling and Simulation	446 - Predicting Intrusiveness of Android Apps by Applying LSTM Networks on their Descriptions	421 - Qute: Query by Text Search for Time Series Data 485 - Data Consortia	344 - Deep Learning Methods for Anatomical Landmark Detection in Video Capsule Endoscopy Images	296 - Edge Crypt-Pi: Securing Internet of Things with Light and Fast Crypto-Processor
347 - Machine Learning Prediction of Gamer's Private Networks (GPN@s)	317 - Dialogical Guidelines Aided by Knowledge Acquisition: Enhancing the Design of Explainable Interfaces and Algorithmic Accuracy	175 - Graphing Website Relationships for Risk Prediction: Identifying Derived Threats to Users based on Known Indicators	504 - Stable Machine Learning Knowledge Map Domain Analysis	492 - Zero Trust in the Context of the Utility Industry
280 - Fast Probabilistic Consensus with Weighted Votes	423 - Machine Learning and Control Engineering: The Model-Free Case	447 - Detection of Malicious HTTP Requests using Header and URL Features	293 - Water Leakage Detection using Neural Networks	152 - Deception Detection in Videos using Robust Facial Features
302 - Steganography Application using Combination of Movements in a 2D Video Game Platform	173 - Human Head Angle Detection based on Image Analysis	211 - Establishing a Formal Benchmarking Process for Sentiment Analysis for the Bangla Language	487 - A Preliminary Exploration into an Alternative CellLineNet: An Evolutionary Approach	365 - RECO-DryGASCON: Re-Configurable Lightweight DryGASCON Engine
478 - Estimating Home Heating and Cooling Energy Use from Monthly Utility Data	32 - Comparison of Machine Learning Algorithms to Recognize Human Activities from Images and Videos using Pose Estimation and Feature Extraction	156 - Comparison of Classifiers Models for Prediction of Intimate Partner Violence	263 - Borno: Bangla Handwritten Character Recognition using a Multiclass Convolutional Neural Network	399 - Sybil Attack Detection and Prevention in VANETs: A Survey
360 - Composite Versions of Implicit Search Algorithms for Mobile Computing	429 - The Impact of Artificial Intelligence on Work, Education, Mobility and Economy		285 - Time Series Prediction by using Convolutional Neural Networks	432 - Lightweight Cryptography for the Internet of Things

Paper Presentations

Fri, Nov 6 | 12:30 PM - 1:30 PM (PST/UTC-8)

Session 31 - Computing	Session 32 - Artificial Intelligence	Session 33 - Data Science	Session 34 - Machine Learning	Session 35 - Security
502 - Preservers of XR Technologies and Transhumanism as Dynamical, Ludic and Complex System	483 - Intelligent and Adaptive Systems of Systems for Engineering Desired Self-Organization and Emergent Behavior	431 - Quick Lists: Enriched Playlist Embeddings for Future Playlist Recommendation	312 - The AI-teration Method and the Role of AI in Architectural Design	301 - A Study on Soft-Core Processor Configurations for Embedded Cryptography Applications
500 - Performance of Test-and-Set Algorithms for Naming Anonymous Processes	256 - Performance Analysis of Computer Vision with Machine Learning Algorithms on Raspberry Pi 3	351 - Parallel Mapper	480 - Transfer Learning on Fine-Grained Categorization	294 - Relationship between Facial Recognition, Color Spaces, and Basic Image Manipulation
155 - Coded Access Architectures for Dense Memory Systems	361 - Merging in Weighted Voting Games with Multiple Strategic Agents	353 - Collaboration-Based Automatic Data Validation Framework for Enterprise Asset Management	286 - A Deep Learning Approach for Symmetric-Key Cryptography System	471 - Hypervisor based IDS Solution Approach using Hybrid Anomaly Detection Model in Cloud Computing Environment
187 - Parallel Direct Regularized Solver for Power Circuit Applications	161 - Using Self Organizing Map to Characterize Flocculation of Papermaking Wastewater	154 - EEG Analysis for Predicting Early Autism Spectrum Disorder Traits	287 - Self-Taught Neural Agents in Clever Game Playing	452 - Classification Method for Malware Detection on Android Devices
188 - Moore's Law is Ending: What's Next After FinFETs	153 - Evaluation of the Uniformity of Paper Sheets using K-Means	345 - Forecasting Time Series with Multiplicative Trend Exponential Smoothing and LSTM: COVID-19 Case Study	75 - Integrating Deepfake Detection into Cybersecurity Curriculum	68 - Social Structure Construction from the Forums using Interaction Coherence
100 - Pervasive UX Journey: Creating Blended Spaces with Augmented Reality	358 - An Analysis of k-Mer Frequency Features with Machine Learning Models for Viral Subtyping of Polyomavirus and HIV-1 Genomes	366 - Dimensional Analysis of Dataflow Programming	283 - A Wise Up Visual Robot Driven by a Self-Taught Neural Agent	270 - Quantifying Information Exposure by Web Browsers