

CODE	TITLE	DESCRIPTION
VTPAI01	Review of Artificial Intelligence Techniques in Imaging Data Acquisition, Segmentation, and Diagnosis for COVID-19	COVID-19, artificial intelligence, image acquisition, segmentation, diagnosis
VTPAI02	An Artificial Intelligence-Based System to Assess Nutrient Intake for Hospitalised Patients	Artificial Intelligence, nutrient intake assessment, few-shot learning
VTPAI03	Understanding Citizens Emotional Pulse in a Smart City Using Artificial Intelligence	Deep learning, emotions modelling, markov models, NLP, smart city
VTPAI04	Predicting Biological Gender and Intelligence From fMRI via Dynamic Functional Connectivity	fMRI, Prediction of gender, Intelligence Prediction, Tensor Decomposition, resting-state, task, functional connectivity, dynamic, Human Connectome Project, PARAFAC
VTPAI05	Global-Attention-Based Neural Networks for Vision Language Intelligence	Global attention, image captioning, latent contribution
VTPAI06	Federated Data Cleaning: Collaborative and Privacy-Preserving Data Cleaning for Edge Intelligence	Privacy preserving, data cleaning, edge intelligence
VTPAI07	Integrating Blockchain with Artificial Intelligence for Privacy-Preserving Recommender Systems	E-commerce, Data theft, User-centric system, Distributed ledger technology, AI-based data analysis
VTPAI08	Survey of Human-Robot Collaboration in Industrial Settings: Awareness, Intelligence, and Compliance	Awareness, compliance, digital-twin human-robot collaboration (HRC), industrial automation, intelligence, physiological computing, speed and separation monitoring (SSM)
VTPAI10	An Enhanced Ensemble Diagnosis of Cervical Cancer: A Pursuit of Machine Intelligence Towards Sustainable Health	Cervical cancer, machine intelligence, classification algorithms, support vector machine, Naïve Bayes, random forest, decision trees, K-nearest neighbors, ensemble classification

CODE	TITLE	DESCRIPTION
VTPAI12	Human Interaction with Artificial Intelligence Systems	AI researchers and practitioners have been facing these issues, but more research is needed to find technical and regulatory solutions applicable in the long run
VTPAI13	A Multicenter Study on Carotid Ultrasound Plaque Tissue Characterization and Classification Using Six Deep Artificial Intelligence Models: A Stroke Application	Artificial intelligence (AI), carotid, deep learning (DL), supercomputer, symptomatic, plaque, tissue characterization, ultrasound (US)
VTPAI14	Societal Intelligence for Safer and Smarter Transportation	Connected autonomous vehicles, intelligent transportation systems (ITS), Internet of Vehicles (IoV), societal intelligence (SI)
VTPAI15	Artificial Intelligence Applied to Stock Market Trading: A Review	Computational finance, algo-tradings, artificial intelligence, finance
VTPAI16	Guest Editorial: Artificial Intelligence for Securing Industrial-Based Cyber-Physical Systems	Combining the concepts of artificial intelligence, industrial applications, and CPS has only just begun and this Special Issue as a whole can pave the way for future research avenues in this highly important interdisciplinary area of study
VTPAI17	Artificial Intelligence and Blockchain-Assisted Offloading Approach for Data Availability Maximization in Edge Nodes	Blockchain, data offloading, edge computing, Naïve Bayes' classification, NP hardness problem
VTPAI18	Detecting SARS-CoV-2 From Chest X-Ray Using Artificial Intelligence	Artificial intelligence, COVID-19, coronavirus, SARS-CoV-2, deep learning, chest X-ray, imbalanced data, small data
VTPAI19	Artificial Intelligence and Internet of Things Enabled Disease Diagnosis Model for Smart Healthcare Systems	Internet of Things, convergence, cloud computing, artificial intelligence, smart healthcare, disease diagnosis. Internet of Things (IoT), cloud computing, and Artificial Intelligence (AI) transformed the conventional healthcare system into smart healthcare
VTPAI20	Spatio-Temporal Crime Predictions by Leveraging Artificial Intelligence for Citizens Security in Smart Cities	Citizen security, smart cities, crime prediction, artificial intelligence, safe city. Smart city infrastructure has a significant impact on improving the quality of humans life

CODE	TITLE	DESCRIPTION	
VTPAI22	Guest Editorial Special Issue on Artificial Intelligence in Automation for Healthcare Applications	Healthcare automation is the technology by which a process or procedure is performed with minimal assistance from medical care personnel. AI, sparse Spectro temporal decomposition (SSD) and deep Learning	IEEE 2021 - ARTIFICIAL INTELLIGENCE
VTPAI23	Using Artificial Intelligence to Understand What Causes Sentiment Changes on social media	Emerging Topic Detection, interpreting sentiment variations, opinion reason mining, Sentiment Analysis, Sentiment Reasoning, Sentiment Spikes, Topic Model, Artificial Intelligence, Machine Learning, Filtered-LDA, FB-LDA	
VTPAI24	Exploring the Use of Artificial Intelligence Techniques to Detect the Presence of Coronavirus Covid-19 Through Speech and Voice Analysis	Artificial intelligence techniques, Covid-19 detection, speech analysis, voice analysis	
VTPAI25	Natural Brain-Inspired Intelligence for Screening in Healthcare Applications	Autonomic decision-making system, autonomic computing layer, cognitive dynamic system (CDS), cognitive decision making (CDM), non-Gaussian and non-linear environment, NGNLE, screening, smart systems, defective dataset, e-health, smart home, conflict of opinions	
VTPAI26	COVID-19 Epidemic and Opening of the Schools: Artificial Intelligence-Based Long-Term Adaptive Policy Making to Control the Pandemic Diseases	Artificial intelligence, COVID-19, long-term policy making, non-pharmacological policies, opening of the schools, pandemic, parametric model, uncertainty	
VTPAI27	Knowledge of and Competence in Artificial Intelligence: Perspectives of Vietnamese Digital-Native Students	Artificial intelligence, competence, knowledge, university students	
VTPAI28	Optimization of IoT-Based Artificial Intelligence Assisted Telemedicine Health Analysis System	Internet of things, artificial intelligence, telemedicine, health monitoring, data analysis	
VTPML01	Empirical Analysis for Crime Prediction and Forecasting Using Machine Learning and Deep Learning Techniques	LSTM and ARIMA based crime prediction, analysis and forecast	IEEE 2021 - MACHINE LEARNING
VTPML02	A Machine Learning-Based Early Warning System for the Housing and Stock Markets	Early Warning System; Housing Market Bubble; Long Short-Term Memory; Machine Learning; Stock Market Volatility	

CODE	TITLE	DESCRIPTION
VTPML03	Machine Learning on the COVID-19 Pandemic, Human Mobility and Air Quality: A Review	COVID-19, coronavirus, pandemic, machine learning, public health, human mobility, air quality, review, spatiotemporal analysis
VTPML04	Special issue on unlocking genetic diseases by integrating machine learning techniques and medical data	Ei Compendex, Scopus, DBLP Computer Science, Google Scholar, and CNKI
VTPML05	Machine Learning for Anomaly Detection: A Systematic Review	Anomaly detection, machine learning, security and privacy protection
VTPML06	A Weighted Discriminative Extreme Learning Machine Design for Lung Cancer Detection by an Electronic Nose System	Class imbalance learning, electronic nose, extreme learning machine (ELM), lung cancer, volatile organic compounds (VOCs)
VTPML07	Machine Learning for AI-Enhanced Healthcare and Medical Services: New Development and Promising Solution	In the field of computational biology and bioinformatics, scientists seek various possibilities using computer technologies, especially artificial intelligence (AI) enhanced methods, for healthcare services and medical diagnoses.
VTPML08	Evaluating and Improving Adversarial Robustness of Machine Learning-Based Network Intrusion Detectors	Network anomaly detection, network intrusion detection systems, adversarial machine learning, machine learning security, evasion attack
VTPML09	Machine learning applied in SARS-CoV-2 COVID 19 screening using clinical analysis parameters	Artificial intelligence, Machine learning, Random forest, Multilayer perceptron, Support vector machine, COVID-19 diagnostic aid model
VTPML10	Advances in Machine Learning Algorithms for Hate Speech Detection in social media	Text classification, cyber hate, deep learning, ensemble technique, machine learning, social media networks.
VTPML11	Novel Meta-Features for Automated Machine Learning Model Selection in Anomaly Detection	Anomaly detection, Auto ML, data properties, distance functions, meta-features, meta-learning, transfer learning

CODE	TITLE	DESCRIPTION
VTPML12	Early-Stage Risk Prediction of Non-Communicable Disease Using Machine Learning in Health CPS	Cyber-physical systems, Internet of Things, machine learning, disease risk prediction, IoT data analysis
VTPML13	Hume to Wuhan: An Epistemological Journey on the Problem of Induction in COVID-19 Machine Learning Models and its Impact Upon Medical Research	Biomedical imaging, machine learning, philosophical considerations, computational systems biology, X-rays
VTPML14	Machine Learning Analysis for Data Incompleteness (MADI):	Health informatics, big data models, data completeness, probability density, Kolomogorov-Smirnov test, support vector machine, stochastic gradient descent, generalized additive model, electronic health records
VTPML15	Forecasting loss of signal in optical networks with machine learning	ML models remain effective for optical networks previously unknown to the model, which makes them usable for commercial applications
VTPML16	An Ensemble Learning-Based Data-Driven Method for Online State-of-Health Estimation of Lithium-Ion Batteries	Lithium-ion battery (LIB), the state-of-health (SOH), duration of the same charging voltage range (DSCVR), ensemble extreme learning machine (ELM).
VTPML17	Machine Learning-Based Prognostics for Central Heating and Cooling Plant Equipment Health Monitoring	Central heating and cooling plant (CHCP), data-driven models, heating ventilation and air conditioning (HVAC), machine learning, predictive modeling, prognostics
VTPML18	Machine Learning Methods to Approximate Rainfall and Wind from Acoustic Underwater Measurements	The ability to measure wind and precipitation by applying machine learning on data from underwater acoustic recorders shows potential to help improve in situ measurements over oceans globally
VTPML19	A Machine Learning Algorithm for Reliability Analysis	Cross-validation, importance reliability measures, isotonic smoothing, logistic regression (LR), quasi-likelihood
VTPML20	Multi-Stage Optimized Machine Learning Framework for Network Intrusion Detection	Network intrusion detection, Machine Learning, Hyper-parameter Optimization, Bayesian Optimization, Particle Swarm Optimization, Genetic Algorithm

CODE	TITLE	DESCRIPTION	
VTPML21	Feedback Control of Bioelectronic Devices Using Machine Learning	Machine learning, Biomedical, Adaptive control.	IEEE 2021 - MACHINE LEARNING
VTPML22	Trust-Based Cloud Machine Learning Model Selection for Industrial IoT and Smart City Services	Trusted Machine Learning Models, Deep Learning, Adversarial Attacks, MLaaS, Automatic Model Selection, Smart City, Industrial IoT (IIoT).	
VTPIP01	Deep Convolutional Neural Network with Adversarial Training for Denoising Digital Breast Tomosynthesis Images	Deep convolutional neural network, digital breast tomosynthesis, generative adversarial network, image denoising, microcalcification	IEEE 2021 - IMAGE PROCESSING
VTPIP03	Multi-Task Sparse Canonical Correlation Analysis with Application to Multi-Modal Brain Imaging Genetics	Brain Imaging Genetics, Sparse Canonical Correlation Analysis, Multi-Task Sparse Canonical Correlation Analysis	
VTPIP04	EDL-COVID: Ensemble Deep Learning for COVID-19 Case Detection from Chest X-Ray Images	Covid-19, chest X-ray images, deep learning, EDL-COVID, ensemble learning	
VTPIP05	A Heuristic Neural Network Structure Relying on Fuzzy Logic for Images Scoring	Fuzzy deep neural networks, transfer learning, fuzzy fully connected layer, medical image scoring	