2025 2nd International Conference on Intelligent Algorithms for Computational Intelligence Systems (IACIS 2025)

Hassan, India
22-23 August 2025

Pages 1-807

IEEE Catalog Number: CFP25UT2-POD
ISBN: 979-8-3315-3678-7

Copyright © 2025 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number: CFP25UT2-POD
ISBN (Print-On-Demand): 979-8-3315-3678-7
ISBN (Online): 979-8-3315-3677-0

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Traffic Sign Recognition and Classification Using Deep Learning Technique Model YOLOv5s..... 1
Sujith Kumar Sivanandan, Aravind. H S, Mrutyunjaya S. Hiremath, Ravi Roogi, Shantala S. Hiremath, Jayaprada S. Hiremath

Privacy-Preserving Approach to Email Spam Detection Using Federated Learning..... 8
Thejaswini R, Ashwini S, Chandramouli H, Sharmila Shanthi Sequeira, Deepak H A, Kiran Puttegowda

Water, Weeds, and Warnings: AI at the Frontlines of Modern Farming 16
M R Pillai, Anita Gunjal

Artificial Intelligence-Assisted Stress Detection Using Physiological Signals and Wearable Technologies..... 23
C. M. Naveen Kumar, Ramesh. B, Dhanush. N, Dimpana T. Raj, Biddappa. C K, Bindya. S

Sustainable Approach for Road Construction: Improving the Properties of DBM Layers Using Recycled PET Bottles..... 29
Navyashree. H R, Vijay Kumar Gowda. B N, P. Bhanupriya, Sreenivasulu. K N, M. B. Anandraju

Multiclass Epileptic Seizure Detection from EEG Signals Using LSTM-Based Deep Learning..... 35
Saritha N, Sanjana B M, Spandana H Y, Amruta Ashok Mudhol, Sharanya T K, Kavya T M

Feature-Based Melanoma Detection and Classification Using Support Vector Machines 41
Bhavana D E, Chaman K B, Pradhan S Gowda, Yashwanth Gowda N R, Bhanuprakash P L, Archana P

Effect of Input Sequence Length on the Predictive Performance of LSTM and GRU Networks for Global Stock Index Forecasting 46
H. M Rakesh, Mohan Kumar Gajendran, Anuraag Upadhyayula, V Prathima, L S Bhavana, S Abirami

Global Health Expenditure Forecasting Using Fourier Transform Assisted Sarima Models..... 52
Venkata Krishna Rao Maddela

Evaluating the Effectiveness of Random Forest and Decision Tree Models in Human Pose Detection Systems 59
Naveen Kumar. R, Surendran. R, Logapriya. E

Advancing Autism Spectrum Disorder Diagnosis Through Machine Learning 64
Uday Shankar. G, Radha. N, Talla Rayees Ahamad, Pujitha Patil

Attribute Inference Scheme for Social Networks Using Sorensen-Dice Similarity and RwR 70
Nithish Ranjan Gowda, Sulakhe Varun Kumar, Venkatesh

Detection and Prevention System Against HTTP Flood Attacks Types(Slowloris) in a Wireless Sensor Network Using TPF Method..... 78
Santhosh Kumar B J, Varun V Govindh, Anekh Shaji V K, Adith S Sajeevan, Sarang Sukumar, Adwitiya Mukhopadhyay

Optimized Reversible Gate Design: Feynman and Double Feynman Gates Using Quantum-Dot Cellular Automata 86
Aruru Sai Kumar, N. Neelima, Praveen Kumar Mudidhe, Kurva Charitha, Arugollu Dolananda Kumar, Lakavath Sai Kiran

Spatio-Temporal Graph Neural Networks Versus LSTM Networks for Lyme Disease Progression Tracking 92
Saravanan. M S, G. Sreehitha

Traffic Sign Identification KriaKV260 and Yolo10 98
Anusha. J K, Naveen. B, Shobha. B N

Enhanced Parkinson's Disease Diagnosis Through Multi-Modal Biomarker Fusion and Deep Learning 104
Shifana Begum, Akhilraj V. Gadagkar

Fragmented Packet and Smart DDoS Attack Detection and Prevention in Wireless Sensor Network Using NFFT Method 110
Santhosh Kumar B J, Aadith Sherley Devanand, Gokul Das K M, Abhiram S Prasad, Aadithyaa N M, Adwitiya Mukhopadhyay

From Glucose to Insight: Analysis of GDM Predictive Models 117
Poonam Chandrakant Bhosale, Reena Gunjan

Suicidal Thoughts Analysis from Social Media Captions Using Machine Learning Approach 124
Padmini Giri, Debabrata Roy, Samiran Bose, Reshmi Shaw

Dual-Stage Latent Encryption in Autoencoders for Secure Image Reconstruction 132
Maram Kumar, Deepak Ch, Sandeep Sri Krishna V, Siripuram Jahnavi, Chaitrika V

Mindshare: An AI-Powered Video Processing and Sharing Platform for Learning, Collaboration, and Creative Expression 138
Roopa M S, Ananth R V, Aakash Nelgikar, Shankar K, Shrinivas Shahapur

Optimized Facial Feature Processing for Emotion Detection in Real-Time Applications 145
Sunil S. Harakannanavar, Ashish Kumar Mishra, Dhruv Yadav, Harsh Vardhan

Predictive Model for Online Transaction Fraud Detection with Cloud Integration and Interactive Interface 151
Ayesha Siddiqua, Nikhil Nayaka. R, Preetam V. Mendal, Vidyashankar. K P

Optimal Controlling of Buck Boost Converter for the Charging of Electric Vehicle Using Anfis 156
Neha Tripathi, Muzaffar Shojonov, Anant Deogaonkar, Bekzod Madaminov, Arun Balodi, Bhumika Pandey

AFF_PAL_AutoCNN: Construction of Autoencoder Convolution Neural Network for Video Steganography Analysis 161
Shruthi, Sharath. M N

Deep Learning Model for Prediction of Fall-Risk Using Gait Biomarkers in Geriatric Population 166
Preeti Khera, Gurpreet Kour, Ashok Kumar

Precision Agriculture: Medicinal Plant Classification Using Image Recognition 172
M. S. Maheshan, C. K. Roopa, Nagesh. T S, Shreya. K, Sumit Anand Jha, Leeladhar Suthur

Graph-Based Drug Discovery and Risk Assessment for Opioid Use Disorder Using Graph Neural Networks and Knowledge Graphs 177
Krishna Kanth Kodanganti, Divya Kodanganti

Pose Detection: Integrating Machine Learning with Large Vision Models 183
Md Sadi Ashraf, Vishwanath Akuthota, Tanay Paul, Arpita Dass, Swapnil Saha, Md Saidul Islam, Amit Esh Chowdhury, Ahmed Selim Anwar, Prosenjit Roy

Interpretable and Robust Machine Learning Approaches for Electric Vehicle Range Prediction Using SHAP Values 189
Latha. Rao. K. R, Shefali Jagwani

Spectral Temporal Graph Transformer for Massive MIMO CSI Prediction in 5G and Beyond 195
Aftab Dayer, Akash, Saurabh Soni, Sandeep Kumar Singh

Channel Estimation for Multi User Massive MIMO Systems Using Federated Learning 201
Priyanshu Grover, Amitabh Kumar, Akash, Sandeep Kumar Singh

Machine Learning Based Computational Approaches for Heart Disease Detection and Prediction 207
Bhoomika S S, A S Raju

2x2 MIMO Rectangular Patch Antenna Array for 5G Applications Operating at 28/38GHz 215
Neelima. K, R. Nagendra, Harikrishnan. S, Syed Sadiq Vali, Nune Divya, R. Surendra

Adaptive Federated Learning Framework for Energy-Efficient Resource Allocation in Mobile Edge-Cloud Environments 222
V. Saravanan Kandaneri Ramamoorthy, J. Velumani, S. Thillai Nayagi, V. Malathy, Dhivyabharathi. D, Ravi. G

Federated Learning Optimization Using Quantum-Inspired Models for Privacy-Preserving Edge Computing in Smart Cities 227
Bharat S. Sudame, Bhargav H K, Roshan Nayak, Vengalapudi Appalakonda, Pooja Sapra, Atmaram Shelke

Generative Adversarial Learning for Anomaly Detection in High-Volume Data Streams Over Fog Computing Layers 233
Suchith Chandrappa, R. P. Meenaakshi Sundhari, Abbas Thajeel Rhaif Alsahlanee, Nadeem Pasha. K, Jaimeel Shah, Ashutosh Panchbhai

Explainable Deep Learning Architectures for Adaptive Cyber Security Defense in Heterogeneous Cloud Computing Environments 238
Drakshaveni. G, Bhargav. H K, Madhu. B K, G. Prasanna Kumar, Rachit Adhvaryu, Girish Abhyankar

Secure and Scalable Blockchain Consensus Optimization Using Bio-Inspired Soft Computing 243
Vidhyadar Unni Krishnan, Vipashi Kansal, K. B. V. Brahma Rao, T. Vamshi Mohana, Swapnil M Parikh, Gitanjali Shrivastava

Dynamic Trust-Based Authentication Framework for Mobile Users Accessing Distributed Multi-Cloud Infrastructure 249
Mahesh Prasanna. K, Jayanthi. M G, Balasubramani. R, Ganga D. Benal, Amit Barve, Atmaram Shelke

Prioritized QoS Enforcement in Smart Healthcare IoT Using Adaptive Deep Q-Network-Based Traffic Decision System 255
Shubhi Srivastava, Roopesh Gupta, Somnath Banerjee, Alpha Vijayan, Chintan Thacker, Abhijit Vasmatkar

Reputation-Based Peer Selection in Decentralized Networks Using Distributed Federated Learning Models 260
Keerthi. H K, Rajini. S, Manjiri Ulhas Karande, Preethi. S, Chaithra. M H, Davinder Kaur

Secure and Efficient Smart Garage Door Opener Using IoT and AI Technologies 266
Anurag Dey, Sujash Pratihar, Nabanita Das, Gourab Santra, Mrinmoy Patra, Bikash Sadhukhan

Optimized Data Classification Using ResNet50 for Liver Tumor Detection from CT Scan Images 274
Samanvaya. K. J, Pushpa Ravikumar, Chaithra. I. V, Arpitha. C. N

Multimodal Evaluation of Language and Speech Models with API Integration: A Quantitative and UX-Centric Analysis 280
Rajdeep Basu, Ameyo Das, Pratick Gupta, Saikat Sen, Bikash Sadhukhan, Nabanita Das

CRES-SMVI: Credit Risk Expert System Based on Selective Missing Value Imputation Using Machine Learning Analytics 287
Arijit Bhattacharya, Ardhendu Mandal, Saroj Kr. Biswas, Debasmita Saha, Akhil Kumar Das, Subhradeep Ray, Suvradip Sinha

ElderEase:AI Driven Language Models for Enhanced Senior Care 295
Madhura Sen, Aditya Bhattacharyya, Veer Vaghasia, Rajkumar. R

Prediction of Heart Diseases Using Gradient Boosting and AutoML: A Comparative Study 301
Madhura Sen, Shreyasha Shreshtha, Danish Ahamad Kalemadar, Rajkumar. R

Advances in Text Detection and Recognition in Multi View Image Scenes 307
Sachith B K, Umesh D R

AI-Driven Crude Oil Trading: Integrating Market Sentiment, Machine Learning, and Risk Management 315
Vaibhav Singh, Gaurav D, Sapna R, Usha Moorthy

SmartCotton: Leveraging CNNs for Automated Detection of Cotton Leaf Diseases 320
M. Monikha, Chaitra. M, Raksha. R

Small-Scale Convnext Variant Optimized for Pneumonia Classification on Chest X-Ray Images 326
Abhinav Srivastava, Ankit Yadav

Improved FSM-Based RTL-to-GDSII Flow: A Power Efficient Design 332
Aruru Sai Kumar, Rajendra Prasad Somineni, R. Vinay Kumar

Smart Wearable Antennas for Industrial Worker Safety and Health Monitoring 338
Sandhya Mallavarapu, Soumit Samaddar Choudhury, Umar Farooq, Bendalam Alekhya

Timing Analysis of Clock Domain Crossing in Asynchronous FIFO 343
Bhoomika K M, Gokul Krishnan V, Peketi Reshma, Sree Vidya J, Shylashree N

Crime Forecasting Using Ensemble Learning 348
Tamanna Dash, Tanisha Jain, Abhivesh Shukla, Bibin Christopher V, Mehdi Samieiyeganeh

BS-GEL: Explainable Brain Stroke Prediction Model 354
Madhunisha Mohan, Tejeshwar Kathiravan, Vaishnavi Jayaraman, Saravanan Parthasarathy

Object Detection and Classification Using Deep Learning Applied to Aquaculture 360
C. G. Raghavendra, Ashwin Alex George, P Rajendra Prasad

Deep Residual Networks Based Classification of Ovarian Cancer from Histopathological Images Using Bio-Inspired Metaheuristic Optimization Algorithm 368
Gowri Shankar Manivannan, Ravi Kumar D, Sinchana, Spoorthi C D, Tejaswini L, Dhyana Tejas Shukla C R

A Study on Supply Chain Management Prediction Based on Machine Learning and Deep Learning Approach 374
Valliammal Narayan, Savitha Sri. R

Lung Disease Detection in Computed Tomography Images Using Cauchy Operator Mutation Strategy with Fennec Fox Algorithm..... 381
Durga Bhavani Kanumuru, Pavan Kumar. A V S, Kameswara Rao Konadala Nynalasetti

Context-Aware Colorization of Grayscale Images Using Deep Neural Networks 387
Akshatha P S, Arpitha T, Meghana J, Shashidhar R, Druva Kumar S, Manjunath A S

Lattice Based Secure Multi-Party Computation Protocol for Blockchain-Enabled Healthcare in the Internet of Medical Things 394
Ponnarasan Krishnan

Design of SEU-Tolerant Sense Amplifier Using Dual Interlocked Cell..... 399
Subbodh Satish, Sunkara Dhaavani, Pujitha. R, Harish Kumar. R B, Madhura. R, Shashidhar. R

Comprehensive Analysis of Automl Techniques for Data-Driven Decision Making 404
Meet Bipinchandra Patel, Deepak Singh, Manoj Babu Devapathni Yugandhar, Rakesh Konda

Comprehensive Study of Data Centric and DevOps Algorithms Based Cloud Security 409
Satish Reddy Goli, Gaurang Deshpande, Rakesh Konda, Arun Kumar Reddy Goli

Comprehensive Analysis of Robotic Process Automation for Software Project Management..... 413
Nikita Chawla, Praneetha Kotla, Sharath Reddy Venna, Meet Bipinchandra Patel

Comprehensive Analysis on Sustainability Forecasting in E-Commerce Supply Chains Using Machine Learning and Deep Learning 417
Sahil Bucha

Comprehensive Analysis of Challenges in Deploying AI Models in FinTech..... 423
Manoj Babu Devapathni Yugandhar, Arun Kumar Reddy Goli, Satish Reddy Goli, Nikita Chawla

Towards Reliable Software: Effective Defect Prediction Using Graph-Based and Neural Network Approaches..... 428
Sangeeta Uranakar, E. Naresh, C N Sowmyarani

Privacy Preserving Semantic Search Over Encrypted Cloud Email Archives Using Bidirectional Encoder Representations From Transformer 432
Abhik Sengupta, Vishi Singh Bhatia, Amit Prasad, Bhupendra Singh, Harvendra Singh, Piyush Ranjan

Secure Federated Multi-Party Computation with Homomorphic Encryption and Blockchain for Preserving Privacy in Cloud Storage of Medical Records..... 437
Abhishek Kumar Verma, Prabhu Patel, Vishi Singh Bhatia, Amber Rastogi, Amit Prasad, Piyush Ranjan

PPO-RA: A Proximal Policy Optimization-Based Deep Reinforcement Learning Framework for Adaptive Resource Allocation in Cloud–Edge–Mist Environments 443
Navneet Kumar Tyagi, Harvendra Singh, Amit Prasad, Rohit Tewari, Ashish Anand, Piyush Ranjan

Attention-Guided Swin Transformer Deeplabv3 for Precise Brain Region Segmentation in Parkinson's Disease 450
Naziya Farheen. H S, Siddika Sabahath Anjum, Shruthi. K M, Asha. J, Yogeesh. G H, Ayesha Siddiqua

Trust Management Framework for Guaranteeing Credible Interactions Among Supply Chain Participants Using Blockchain 455
Shruthi D V, Jagadisha N.

A Comprehensive Analysis of FPGA Based Image Processing Technique in Machine Learning Approaches 462
Mattagunja Varaprasad, B. Rajasekar

A Bibliometric Research Method Based on Big Data: Evidence from Knowledge Graph 466
Caitian Wu, Hongxi Chen

Lightweight Version Bidirectional Encoder Representation from Transformer Low-Resource Language Text Classification 473
Kavitha Thiyagarajan, A C Ramachandra, Baker Karim, Amit Chaudhary, N J Kasi Viswanath.

Computer Vision Approach for Distinguishing Polished and Unpolished Tur Dal Grains 481
Veena B. Mindolli, Mahantesh C. Elemmi, Girish Saunshi

Deep Learning Method for Market Demand Forecasting in Enterprise Management using Long Short-Term Memory Networks 488
Tao Liu, Yanli Xu

Design of 3D Reconstruction and Virtual Reality Interactive System of Geological Relics Based on Multimodal Deep Learning 493
Bo Zhang, Zichao Chen, Ping Yang

Application of Federated Learning Algorithms in Cross-Border E-Commerce Data Compliance Sharing 498
Weiwen Lian, Peihan Zhuang, Shihan Lin

Lightweight CNN Using BRT-Expressionnet for Facial Expression Recognition 504
P. Nagarathna, Shafiq Sharhrah, Chandra Sekar. P, Amit Chaudhary, Mahalakshmi. G

Application of Dynamic Path Planning Algorithm in Subway Network Passenger Flow Diversion 512
Ning Guo, Xiaochen Hu, Decun Dong

Design and Implementation of Reinforcement Learning Algorithms in an Intelligent Guidance System for Virtual Physics Experiments 518
Xiang Teng

Rural Crop Planting Program Planning Based on Linear Dynamic Programming and Intelligent Algorithms 524
Jiankang Nie, Yuerui Ma, Huaichang Jiang, Jiahao Zhang, Zikun Zhao, Zhihong Ma

Domain-Adaptive Reinforcement Learning Framework for Robust Autonomous Vehicle Navigation 530
Raed Hameed, Manjunath. H N, Chandra Sekar. P, Vijaya Bhaskar Oggu, Indu. B

Active Support Control Strategy of Wind Turbines in Power System Frequency Regulation..... 536
Guangping Zhao, Yuzhou Huang, Gaoshan Hu

Network Intrusion Detection and Defense System Based on Deep Learning 542
Yirong Zhang

FDS-RFP: Federated Learning with Diagonal Swin Attention Model Differential Privacy for Smart Healthcare Systems 548
Shweta Dhareshwar, Mostafha Alwbaidy, Abhishek Kumar Verma, Kush Patel, Mahalakshmi. G

Research on Optimization of Exhibition Hall Environment Art Design System Based on Mobile Intelligent Network..... 556
Tao Zhang

Anomaly Detection Algorithm for Ophthalmic Images Based on Unsupervised Learning..... 562
Cong Chen, Zongni Li, Jiamin He, Zijun Guan, Junya Wei

Improved Prototypical Network with Diacritic Detection for Few-Shot Urdu Handwritten Character Recognition 569
Seshendranath Balla Venkata, Kavitha Thiyagarajan, Sarumathiy. C K, Saef Thallal, Mukesh Soni

Optimization Strategy of Multimodal Emotional Interaction System Based on GPT-5 574
Qiaoling Zhang

Intelligent Early Warning Method for Pipeline Failure Guided by Pressure Time Series Clustering..... 580
Yingjun Hao

An Integrated Temporal Graph Neural Network and Autoencoder Model for Real-Time Credit Card Fraud Detection 585
Mrinmoy Aich, Vijaya Bhaskar Oggu, Mohan Sankaran, Keerthi. H K, Zahrah Sataar

Dynamic Early Warning Model of Financial Risks Based on Fusion of Multi-Source Heterogeneous Data 591
Xiaodan Wu

Design of Network Security Situation Awareness System Based on Decision Tree..... 597
Liu Liu

HAGCN-BERT: Hierarchical Attention Graph Convolution Network with In-Domain Adapted Self-Supervised Pretraining with Hierarchical Graph Convolution for Multimodal Sentiment Analysis..... 603
Twinkle Joshi, Pavani Addanki, Lakshmi H, Ali Alkwzahy, Pradyumna Kodgi

Customer Electricity Business Graph Construction and Electricity Consumption Behavior Prediction Based on Deep Learning Algorithm.....611
Chengjia Tang, Fangquan Wu, Junxin Wang, Junhan Hu, Weiqi Xiong

3D Reconstruction Technology of Magnetic Field Change Process Optimized by Reinforcement Learning 617
Xin Zhou

Computer Security and Protection Mechanism Design in Automotive Electronic Systems..... 622
Yongtao Liu

Hybrid Self-Attention-Long Short-Term Memory with GCNN for Electricity Demand Forecasting 628
E. G. Satish, Babu Rajendra Prasad, Taqy Aleobahaey, Diganta Sengupta, Gurupandi. D

Deep Learning Algorithms That Integrate Semantic Understanding Help Improve the Semantic Coherence of Translation 636
Chubei Lin, Zedong Huang

Design and Implementation of Interactive Music Human-Computer Collaborative Creation Algorithm Based on Deep Reinforcement Learning 642
Hetian Chen

Scalable Clustering of High-Dimensional IoT Data Using Incremental PCA and HNSW-Based Approximate Nearest Neighbor Search 649
Heba Alasady, Pavani Addanki, Harshitha. G M, Uma. S, Mukesh Soni

Intrusion Detection Model for Software-Defined Networking with Generative Adversarial Network & Local Attention Mechanism 655
Mohammed I. Habelalmateen, Prayas Lohalekar, Pavani Addanki, R Palanivel, K. R. Kavitha

Application of Improved Particle Swarm Optimization Algorithm in Fusion Evaluation of Bridge Health Index 663
Yongning Zhang, Dongxue Li, Nian Zhang, Chaohui Wang

LSTM-Based Real-Time Prediction Model for Student Psychological States using Multimodal Learning Analytics 669
Xiao Liu, Yingnan Zhang

LoRa-Based Intelligent Edge Framework for Water Quality Monitoring Using CNN with Squeeze-and-Excitation 674
Ahmed K. Shakir, C Bharathi, P. Girish, Mrinmoy Aich, R Susan Poonguzhali.

Design and Implementation of an Interactive Generative Art System Driven by Reinforcement Learning Algorithm 680
Daxiao Gong

Application of Transformer-Based Multimodal Data Fusion Algorithm in Intelligent Recommendation System 686
A-Fang Li

Energy-Efficient Task Scheduling in IoT using a Hybrid Genetic Algorithm with Local Search 693
Sandhya. N, Seshendranath Balla Venkata, Saef Thallal, Lakshmanan. M, Mukesh Soni

Real-Time Traffic Congestion Detection Using ResNet50 with Multi-Dimensional Feature Fusion Residual Block in YOLOv8 698
Raami Riadhusin, Anupama Sindgi, A. Suresh, S. D. Govardhan, Indu. B

BERT-Based Dynamic POS Tagging Algorithm for Corpora 706
Xiaoling Yu, Xin Liu, Aijun Liu

Corpus Classification Algorithm Based on Improved FastText 712
Fangting Liu

A Real-Time Traffic Signs Detection Using Multi-Scale Convolutional Neural Network with Dynamic Pruning Strategy 718
Keerthi Kumar. M, Zahraa Alkhafajy, K. B. V. Rama Narasimham, Amit Chaudhary, Ruchita Singhania

Optimizing Immersive Interactive Experience in Virtual Reality Environment: Behavior Prediction Based on Neural Network 724
Yueping Bi

English Collaborative Translation Task Allocation and Optimization Based on Deep Learning and Multi-Agent System 730
Yinghua Lin

CRGDS-DenseNet201: A Coordinated Residual and Global Dependency Self Attentions with DenseNet-201 for Colon Cancer Classification..... 736
T. Aditya Sai Srinivas, N Rajesh, Rehaam Abdohwr, Ponmurugan Panneer Selvam, B Ahila.

Construction of English Corpus Pattern Classification and Prediction Model Based on Reinforcement Learning..... 744
Chao Ling

Research on the Construction and Optimization Algorithm of Cybersecurity Knowledge Graphs Combining Open Information Extraction with Graph Convolutional Networks..... 751
Yihong Zou

Contrastive Learning-Based Cross-View Image Matching for Drone Navigation Using Unmanned Aerial Vehicle and Satellite Image 756
Zaeid Ajsan Salami, Sachinkumar, N Ramesh Babu, M P Sahana, K K Rajthilak.

Implementation of Intelligent Chatbot Model for Social Media Based on the Combination of Retrieval and Generation..... 762
Qianru Xu

Generative Adversarial Network-Based Low-Light Super-Resolution of Satellite Imagery to Balanced Reconstruction..... 769
Mohammed I. Habelalmateen, K. Deiwakumari, Veeranna Kotagi, Hemalatha. A, K. R. Kavitha

Optimization and Performance Analysis of Personalized Sequence Recommendation Algorithm Based on Knowledge Graph and Long Short Term Memory Network 775
Ke Zhang

A Dynamic Weight Scheduling Scheme Based on Redundant Pruning in a Lightweight Deep Learning Framework 780
Xiaoqian Fan

Longformer-Enhanced Hierarchical Attention for High-Quality Extractive Document Summarization..... 788
Twinkle Joshi, Kavitha Thiyagarajan, Srinivasan, Ahmad Alzaidi, Pradyumna Kodgi

Assessment of Light Reflection Impact on Airport Water Surface Photovoltaic System Based on Multi Objective Optimization Algorithm 795
Yajun Wang, Jun Huang, Kongrong Yang, Hui Jiang

Lexicon Enhanced N-Gram and Bidirectional Encoder Representation From Transformer Model to Detect Hate Speech in Social Media 800
Layth Hussein, Twinkle Joshi, R. Rajarajan, Ponmurugan Panneer Selvam, R. Rajarajan

Key Technologies and Function Optimization Design of Technology Migration for Intelligent Power Plant Holographic Monitoring System..... 808
Zedong Yang, Ying Xu, Jiazhi Zhang

Inflation Rate Forecasting Based on Deep Learning and Time Series Model 815
Kexin Guo

Research on Dynamic Identification and Prediction Model of Tax Fraud Based on Deep Learning 821
Qifeng Hu

Lightweight Distilled Embedding and Feature Fusion for High-Performance Essay Scoring 827
Divya. G, Pavani Addanki, Haayder M. Abbas, Padmavathi. S, E. Baraneetharan

Emotion Recognition in Code-Mixed Social Media Data Using an Optimized Transformer Architecture 833
Seshendranath Balla Venkata, Abdolwadwd Alzubaidy, Srinivasan Srinivasan, Sathish Kumar. M, Bhargavi Vemala

Research on Multi-Model Fusion Machine Learning Demand Intelligent Forecasting System in Cloud Computing Environment 839
Jiaying Huang

Automatic Generation of Computer Interface and Interaction Design Classification by Intelligent Optimization Algorithm 846
Lanting Yu, Qiang Zheng

Trust-Aware Fuzzy Clustering and Hippopotamus Optimization Algorithm for Secure and Energy-Efficient Routing in Wireless Sensor Networks 853
Smitha Sharath Shankar, Montater Muhsnhasan, Ashish Anand, Sweta Singh, K. R. Kavitha

Reducing Key Updates Method During Intelligent Vehicle Movement Based on Reinforcement Learning 861
Shilin Geng

Deep Reinforcement Learning for Spectrum Allocation in Cognitive Radio Networks with Realistic Environment Modelling 867
Seshendranath Balla Venkata, B M Manjula, Mohhamied Husaein Sallaah, Srinivas Samala, S Praveena.

Transformer XL Long Range Dependency Modeling and Dynamic Growth Prediction Algorithm for E-Commerce User Behavior Sequence 873
Fuzheng Liu

Delay-Tolerant Energy-Aware Unmanned Aerial Vehicles-Based Sensor Data Aggregation Protocol for Efficient Collection of Sensor Data 879
Seshendranath Balla Venkata, Taqy Aleobahaey, Srikanth. H V, Sahana. M P, Sunaina Sangeet. T

Research on User Preference Modeling and Dynamic Evolution Based on Multimodal Sequence Data 885
Xiao Liu

Energy-Efficient Clustering in Wireless Sensor Networks Using Sine-Based Initialization Dynamic Refinement and Mutation-Driven Enhanced Moth-Flame Optimization 892
Shashidhara. K S, Qassem Alattabi, Vignesh Prasanna Natarajan, Ajitha. P R, K. R. Kavitha

Optimization of Multilingual English Translation Model Based on Transformer Architecture and Transfer Learning Algorithm 900
Yan Hu

Multimodal Media Content Generation: Design of Intelligent Propagation Algorithms for Fusing Speech and Visual Information 906
Kai Lyu, Qian Guo

Dynamic Credit Risk Warning for Small and Medium-Sized Banks Based on Temporal Graph Network Method 912
Fengna Zhang, Renzhong Liu

Res2Net-Based Multi-Scale Extraction Module with U-Net for Brain Tumor Segmentation in MRI 918
Heba Alasady, Kush Patel, Veeranna Kotagi, Ponmurugan Panneer Selvam, Lathabhuvaneshwari. S

Adaptive Quantum-Inspired Firefly-Artificial Bee Colony with Fuzzy Logic Control for Multi-Objective Feature Selection 926
Parameshachari. B D, Yashaswini. D K, Rehaam Abdohwr, Padmavathi. S, Nisha. A

Using Deep Learning Methods to Achieve Efficient Deployment and Resource Scheduling Optimization of Deepseek Large Models in Linux Systems 932
Guanhua Zhou, Zhenhua Wen, Xirong Zhou

Practical Path of Artificial Intelligence Sentiment Analysis Technology in Dynamic Evaluation of Urban Brand Image 937
Shi Yang

Smart Agriculture Monitoring System Using Edge Multimodal Fusion Framework 943
Sandhya. N, Zahrah Sataar, P. N. Tengli, C. Kathiresan, Eswararao Bireddi

Tourism Flow Prediction Model Based on Spatiotemporal Network Embedding Algorithm 949
Xin Guan

Emotion-Adaptive Human-Robot Interaction Using Multisensory Cross-Attention Fusion with Multi-Temporal Resolution Convolutional Neural 954
Layth Hussein, Ayesha Siddiqua, Abhik Sengupta, Saket Dhanraj Chaudhari, Raghava. M S

Cross-Institutional Collaborative Modeling of Corporate Financing Data Under the Framework of Federated Learning 960
Hua Fan

Adaptive Physics-Guided Transfer Learning Model for Predictive Maintenance 965
Prayas Lohalekar, Twinkle Joshi, Kavitha Thiyagarajan, Ramachandra. A C, Zahrah Sataar

Severe Weather Intelligent Identification Technology Based on Artificial Intelligence Multisource Data 971
Jiangbing He

Reinforcement Learning Driven Dynamic Network Attack Path Prediction and Adaptive Defense Strategy Optimization Algorithm 977
Shuo Xu

A Secure Blockchain Framework Using Stacked SVM-RF with Advanced Encryption Standard Galois/Counter Mode 983
Kumaraswamy. S, Shilpa. R, Shalini. S, Amit Barve, Manjunatha. S, Ramya Maranan

Anomaly Detection for Intrusion Prevention in Multi-Cloud Systems 990
Rajesh Remala, Suman Jayakumar, Kapil Kumar Sharma, Somnath Banerjee, Ganga D. Benal, Ramya Maranan

Benchmarking of Machine Learning for Anomalybased Intrusion Detection Systems Using LSTM-RNN 997
Kumaraswamy S, Shalini S, Sevinthi Kali Sankar Nagarajan, Lakshmi Shree M S, Jay Gandhi, Ramya Maranan

Implementing Digital Twins in Intelligent Control Systems for Real-Time Energy Optimization 1003
Vignesh Prasanna Natarajan, N. Malarvizhi, S. Prabu, Parthiban. K G, Ravi. G, Mitul Patel

Applying Transfer Learning to Cloud-Based Medical Imaging for Accelerated Diagnostics 1010
Manjunath Kamath. K, S. Gomathi Meena, Ananda Thipperudra, V. Malathy, Ravi. G, V. Balamurugan

Utilizing Generative Adversarial Networks for Synthetic Data Generation in Cybersecurity Applications..... 1017
K. Indhumathi, G. Pandiselvi, Jasmine. P, Mohamed Faiz. N, Eswararaja. P, Bharanitharan. A

Employing Reinforcement Learning in Autonomous Vehicle-To-Vehicle Communication Systems..... 1024
S. Shafreen Parvez, Yogita D. Bhise, M. Lakshminarayana, S. Latha, Girish Jadhav, Kavitha. C

Integrating Edge Computing with Swarm Intelligence for Efficient IoT Device Management 1029
Chandu Jagan Sekhar. M, Yogita D. Bhise, M. Lakshminarayana, Ayshwarya. B, Ishan Desai, Balasubramani. R

Applying Few-Shot Learning to Optical Character Recognition in Low-Resource Languages..... 1035
B. Chandrashekar, Yogita D. Bhise, D. Muthukrishnaveni, Arudra Annepu, Swapnil. M. Parikh, Kavitha. C

Utilizing Self-Supervised Learning for Anomaly Detection in Smart Grid Communication Systems..... 1041
Zoya Parvez. S, Praveen Kumar Reddy, Al Ameen Hassan, M. Sai Veerraju, Falguni Tlajiya, Balasubramani. R

Employing Capsule Networks for Robust Speech Recognition in Noisy Environments 1047
Vaishali Gajendra Shende, Arudra Annepu, K. B. V. Brahma Rao, Payala Krishnanjaneyulu, Kruti Sutaria, Balasubramani. R

Applying Meta-Learning to Personalize User Experiences in Augmented Reality Systems..... 1054
Pradeep. B S, Chandrakala G. Raju, Naga Lalitha Sree, Chaithra. M H, P. Ajitha, Kavitha. C

Decentralized and Immutable Record-Keeping for Data Privacy-Preserving in Healthcare Using Homomorphic Encryption in Blockchain..... 1060
B. Aishwarya, P. Sriramya

RNN Hybrid Model for Evaluating EFL Teachers' Classroom Performance in Higher Education 1067
Govind Prasad Goyal, Taruna Anand, P. Lakshavarthini, Santiago Otero-Potosi, Ratan Sarkar, Manthan S. Manavadaria

Hybrid Collaborative Recommendation Method via Dual-Autoencoder Framework for Analyzing Social Media Addiction and Student Behavior in Higher Education..... 1073
Veernapu Sudheer Kumar, Mallapuram Bala Chennaiah, Rashmi Shekhar, Ajit Kumar, T Thulasimani, Soumitra Mondal

GA-SA Hybrid Model for EV Penetration Forecasting and Charging Infrastructure Optimization..... 1079
Mallapuram Bala Chennaiah, Veernapu Sudheer Kumar, M. S. Devimani, Vijayalakshmi Repalle, Rupak Kumar Deb, S. Sakthivel Padaiyatchi

IoT–Fuzzy Logic Hybrid Framework for Crop Monitoring and Yield Prediction in Smart Agriculture 1085
K. Himabindu, Vinay Saxena, Srinivasan. P, Kesavaraj. K, E. Sathish, D. Suganthi

IoT–Naive Bayes and Random Forest Hybrid Framework for Cyclone Prediction and Early Warning in Smart Cities 1091
Swathi Tejah Yalla, Kottamidde Adisekhar Babu, Thangadurai. M, Ajay S. Bhongade, Prathima Gamini, D. J. Joel Devadass Daniel

ML-ANN—Based Hybrid Model for Intelligent EV Battery Management 1097
S. Poorna Chander Rao, Periyasamy. V M, Satheesh Kumar. R, K. Balasubramanian, A. A. Ahamed Haris, Varadharaj. M

Hybrid Auto-Encoder Framework for Water Pollution Prediction in Smart Cities 1103
Jagadeesan. N, N. Subhash Chandra, Kasagana Srinivasa Rao, R. V. S. Praveen, Nishant Anantrao Upadhye, S. Kaliappan

GAN and RNN Based Hybrid Model for Consumer Behavior Analysis in E-Commerce 1109
Surjit Victor, K. Rajesh Kumar, Rvs Praveen, Raviteja Aida, Harmanpreet Kaur, Gauri Singh Bhadauria

Early Detection and Staging of Skin Cancer Using a Feature Extraction-Pinsage Based Hybrid Model 1115
Srikanth Chintakindi, L. Kiran Kumar Reddy, Bodla Ashwin Kumar, G. B. N. Jyothi, J. A. Jevin, Sathish Kumar. M

Graph Neural Network Model for Intelligent Urban Traffic Flow Prediction and Smart City Mobility Management 1121
Babasaheb Dnyandeo Patil, Rvs. Praveen, Ananth Krishna Rambhatla, Kartik Trakroo, Kavita Singh, R. Vishanth

Hybrid Transformer Based Framework for Enhanced Financial Market Analysis and Online Trading Forecasting.....1127
Suhashini. J, Kumaran Thayumanavan, Ajit Kumar, Rvs Praveen, Manisha Amol Bhendale, Kuldeep Agnihotri

Machine Learning-Driven Fault Detection in Electric Vehicles via Hybrid Reinforcement Learning Model 1133
Kushvanth Chowdary Nagabhyru, M. Rani, D. Sudheer Reddy, V. Krishnaraj, Renukaprasad. G, Praveen. V

Smart Solar Harvesting and Power Management in IoT Nodes Through Deep Learning Models.....1139
Angotu Nageswara Rao, Ravi Shankar Garapati, R. T. Suganya, A. Kaliappan, T. Kamaleshwar, Pranav. N

Graph—LSTM Hybrid Model for Improving Fraud Detection Accuracy in E-Commerce Financial Services 1145
Srinivasarao Paleti, Meenu Baliyan, Avinash Reddy Aitha, B. Amarnath Reddy, Gauri Singh Bhadauria, Sonam Arvind Sing

Blockchain-Based Medical Supply Chain with Smart Contract Enforcement 1151
Kumaraswamy. S, Manjiri Ulhas Karande, Balasubramani. R, Umang Soni, Amol Sapatnekar, Ramya Maranan

Diabetic Foot Ulcer Identification Using Deep CNN Models on Visual Image Datasets 1159
Padma Bellapukonda, R. Viswanathan, Feroza D. Mirajkar, Kalaivani. T, Manoj Kumar. G, V. C. Bharathi

Adaptive Online Learning with Split-Merge Stochastic Gaussian Mixture Models for Real-Time Robotic Applications 1164
Sike Li

An Intelligent Assessment of College Students' Innovation and Entrepreneurship Ability Based on Optimized Backpropagation (BP) Neural Network with BAT 1172
Qin Wang, Yan Han

An Intelligent Music Teaching System Based on Lite Models and Android Platform 1179
Shanni Li

An Intelligent Book Recommendation System for University Libraries Based on Deep Learning Models 1185
Qiu Zhang, Min Wan

Deep Model-View-Controller (MVC) Framework for Intelligent Tax Risk Management System 1191
Ming Zheng, Ping Tong, Zuoyun Dai, Zichao Zhu, Tao Zhu, Wenxin Tang, Ruoxuan Ding, Tianxin Chen

Risk Evaluation of Enterprise Capital Management Based on Hybrid Bio Inspired Model 1197
Wenxin Tang, Yao Zhou, Zuoyun Dai, Tao Zhu, Zichao Zhu, Ming Zheng, Ruoxuan Ding, Tianxin Chen

Development of Operational Risk Warning of Fixed Assets Based on Improved Machine Learning Model 1203
Zichao Zhu, Ping Tong, Zuoyun Dai, Ming Zheng, Wenxin Tang, Tao Zhu, Ruoxuan Ding

Personalized Recommendation of Spanish Digital Resources Using Improved Transformer Networks 1208
Bei Zhao

Sports Digital Teaching Platform Using Multi-Feature Fusion and Deep Learning Algorithm 1214
Yong Li, Yu'An Sun

Research on Image Enhancement Algorithm Based on Hybrid Generative Adversarial Network 1221
Yingchen Xu, Huajun Luo, Zhiyong Wu

Ensemble Convolutional Neural Networks for Computer Network Security Situation Assessment 1228
Yongsheng Luo

An Enhanced Evaluation Model of Ideological and Political Education Based on Ensemble BP Neural Network 1233
Tao Pan

Intelligent English Classroom Teaching Behaviour Evaluation Method Using Hybrid Deep Learning Algorithms 1239
Yanru Li, Yu Bei

English Translation Teaching Assistance System Using Rank-Based Average Pooling with Convolutional Neural Network 1245
Hongyu Zhang

A Novel Ensemble LLM for Intelligent Recommendation System for Chinese Vocabulary Learning 1250
Dan Wang, Xiaoning Tian

Evaluation of Physical Education Quality in Colleges and Universities Using Optimized Neural Network 1257
Xu Ji

A Novel Deep Learning Framework for Evaluation of English Classroom Teaching in University 1264
Yue Hu

Chaotic Optimized Large Language Model for an Effective Translation of the Japanese Language 1270
Pengyi Zhong, Cheng Zhang, Xiaodong Wang

An Intelligent Integration of Fine-Tuned DeepSeek Models for an Effective Japanese Online Education System 1277
Lan Gao

Research on Intangible Cultural Heritage Creative Design based on Style Transfer Algorithm 1284
Shuaijun Fan

Design and Development of Enterprise Financing Risk Prediction Based on Multi-Stacked Recurrent Neural Networks 1289
Xinxin Ma

Cognitive Framework for Predicting Students' Anxiety Levels Using Optimized Feed Forward Networks 1295
Hailing Liu

Home-School Joint Education System for Evaluating Students' Learning Ability Using Spatio-Temporal Learning Networks Under the Background of “Double Reduction” 1302
Ruolin Su

Intelligent Power Prediction for New Energy Generation by Using Maximum Power Point Tracking (MPPT) 1309
Hang Zhang, Xiangdong Liu, Huiqiong Liu

Design and Development of Intelligent Teaching System of Art Design Course Based CNN-LSTM Model 1316
Ruhao Zhou

Design and Application of Digital Protection Platform of Intangible Heritage Based on Virtual Reality Technology 1324
Niannian Lu, Hao Jiang

A Novel Research on Classification of Online Ideological and Political Teaching Resources Based on Hybrid Deep Manta Ray Belief Networks 1330
Wenju Gao, Lingling Liu

Evaluating Students' Learning Ability Using BP Neural Network Model Optimized with Adaptive Genetic Algorithm 1337
Yue Zeng

Multi-Modal Swin Transformer Networks for Quality Evaluation of Smart Ideological and Political Classroom Teaching in Colleges and Universities 1344
Pan Luo, Jian Li

Research on Fault Diagnosis of New Energy Vehicle Drive Motor Based on Graph Neural Networks (GNN) with Attention Mechanisms 1350
Hongyi Lu, Zirang Lu

An Intelligent Framework for Network Slicing to Enhancing Resource Scheduling in 5G Network 1356
Haiyan Chen

English Assisted Intelligent Teaching System Based on Cloud Computing and Hybrid Deep Learning Algorithm 1363
Min Yin

Differentiation of Benign and Malignant Tumors Using Hybrid Attention-Guided Convolutional Neural Network 1369
Qian Chen

Assessment for Network Information Security Situation Based on Hybrid Deep Learning Framework with Shark Optimized Bi-GRU Network 1375
Runqi Li, Wei Liang, Chao Wang, Xiaorong Kong, Xuejiang Ran

Research on Learning System Based on VR Technology and Artificial Intelligence Algorithm..... 1381
Yan Xue

Fault Diagnosis of Power Communication Network Using Deep Neural Network 1387
Su Jiang, Xun Fan, Wentao Wang, Haoyu Xie, Yi Zhang, Ji Zhang, Aofan Gong, Chuang Zhang

Beluga Whale Optimised Forest Networks for an Effective Quality Evaluation of University Ideological and Political Education Courses 1394
Zhiping Xia, Zhe Ji

Research on Financial Risk Early Warning Based on Machine Learning Algorithm 1401
Jing Wang

Hybrid Attention-Enhanced Residual Lstm Networks for Financial Data Prediction 1407
Zhiyan Jiang

Global Trade Economic Forecast Based on Hybrid Graph Attention Network-Temporal Convolutional Network 1413
Chang Shen

Effectiveness Evaluation of Ideological and Political Courses Using Culturally-Aware Contrastive Multiview Clustering Algorithm 1420
Yuetong Zhou

Prediction of Concrete Compressive Strength based on Bayesian Optimization-Deep Neural Network 1427
Kai Gao, Tengku Anita Binti Raja Hussini, Qijing Xia, Xiu Liu, Huan Li

Design and Development of Federated Intelligent Framework for Maintaining the College Student Management Systems 1434
Chengbin Zhou

Intelligent Recommendation for Ideological and Political Courses Resources Using the Q- Deep Learning Model 1440
Rong Wu

Intelligent Laboratory Management Systems Using Enhanced Deep Learning Algorithm 1446
Kate Zheng, Xiaolong Jiang

Performance Prediction of Chain Enterprise Using Long Short-Term Memory (LSTM) Network 1452
Xiaolong Jiang, Sujun Xie

Design and Development of IoT-Enabled Intelligent Gait Analysis Systems for an Effective Sports Training Auxiliary Systems 1457
Qimeng Niu, Jiacheng Feng

Hybrid Generative Memory Networks for Efficient Dance Movement Generation and Classification 1464
Jia Yang

Enhancing Ideological and Political Intelligent Teaching Systems Using Fine-Tuned Large Language Models 1470
Xiaojing Wang

An Ensemble Genetic Algorithm Tuned BERT Model for the University English Course Based Ideological and Political Teaching Platforms 1476
Huiping Qin

Design and Development of Hybrid Siamese Recommendation Systems for an English Course Learning System 1482
Liming Liu

Convolutional Based Vision Transformer Networks for an Efficient Face Recognition 1488
Xiaoqing Wang

A Novel Ensemble U-SWIN Networks and EfficientNets-B3 for an Accurate Classification of Ancient Murals 1494
Peng Zhang

Intelligent Training Room Management Systems Using Edge-Based Artificial Intelligence Technique 1501
Chundan Song, Shaojie Yu

Design and Application of IoT-Enabled Ensemble Learning Model Based Smart Cultural Tourism Resource Sharing Platform 1507
Gang Li

A Novel Higher Education Assessment System Using FSSO-Tuned Bayesian Long Short-Term Memory Networks 1514
Yilin Sun

Explainable Machine Learning Based Financial Distress Warning for Enterprises 1520
Yiyang Tang, Liping Zhang

Hybrid Deep Learning Model for the Financial Market Public Sentiment Monitoring and Analysis 1526
Yaojian Zhang

A Novel Multi-Stacked Classifiers for an Effective Sentimental Analysis of Consumer Behaviours in Retail Enterprises 1531
Qiang Hao

Multi-Scale Features Enabled Deep Learning Framework for Personalised Computer Courses Resources Recommendation 1537
Jianfei Liao

A Novel Optimized Convolutional Neural Network and BI-LSTM for Evaluating the Stage Art Teaching Quality for the Students 1542
Mengying Li, Kai Zhang

Quality Evaluation for University Management Teams Construction Using Enhanced Ensemble Gated Networks 1550
Lei Cui

An Optimized Machine Learning Framework for an Intelligent Monitoring of Running State for High Voltage Power Cable 1557
Jingqi Zhao, Yujia Xiao, Wenyu Liu, Xuefei Shi, Jianwu Jiang

Leo Optimized Boosted Learning Framework for the English Teachers' Classroom Behaviour Analysis 1564
Ya Chen

Urban Energy System Scheduling Using Deep Gated Neural Networks 1570
Zhilei Huo

Design and Development of Meta-Heuristic Evoked BERT Model for an Efficient Online Spanish Reading Teaching Platform 1576
Kejia Zhu

A Novel CNN-Swin Network for an Effective Recognition of Chinese Painting Art Styles 1583
Yuan Dong

Ensemble Genetic -Flower Pollination Techniques for an Effective Clothing Design 1589
Rubin Hou, Yan Ma

Design and Development of English Achievement Prediction System in Online Education Systems Using Hybrid Machine Learning Algorithm 1595
Jing Yang

Intelligent Evaluation and Correction of Dance Pose Using Hybrid Siamese Networks 1601
Xi Yang

Meta-Heuristic Optimized Generative Models for Enriching Chinese-English Intelligent Translation 1607
Yan Wang

Author Index