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Soggetti	Computer Networks Artificial intelligence Application software Computer systems Computers, Special purpose Artificial Intelligence Computer and Information Systems Applications Computer System Implementation Special Purpose and Application-Based Systems
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Nota di contenuto	Machine Learning and Its Applications -- Schizophrenia Identification through Deep Learning on Spectrogram Images -- An Optimized Ensemble Machine Learning Framework for Multi-Class Classification of Date Fruits by Integrating Feature Selection Techniques -- Harmonizing Insights: Python-based Data Analysis of Spotify's Musical Tapestry -- Comparative Study of Predicting Stock Index Using Deep Learning Models -- Enhancing Heart Disease Prediction through a Heterogeneous Ensemble DL Models -- IoT-based pesticide detection in fruits and vegetables using Hyperspectral Imaging and deep learning -- STATISTICAL ANALYSIS OF HEMATOLOGICAL PARAMETERS FOR

PREDICTION OF SICKLE CELL DISEASE -- Optimized Route Planning and Precise Circle Detection in Unmanned Aerial Vehicle with Machine Learning -- DRL based multi-objective resource optimization technique in a multi-cloud environment -- Aspect Level Sentiment Analysis to extract valuable insight for Airline's customer Feedback and Reviews -- Drug Recommendations Using A Reviews And Sentiment Analysis By RNN -- Optimizing Real Estate Prediction - A Comparative Analysis of Ensemble and Regression Models -- ESTIMATION OF POWER CONSUMPTION PREDICTION OF ELECTRICITY USING MACHINE LEARNING -- Medical Plants Identification using Leaves Based on Convolutional Neural Networks -- An Efficient Real-time NIDS using Machine-learning methods -- Maixdock Based Driver Drowsiness Detection System Using CNN -- A Novel Approach to Visualize Arrhythmia Classification Using 1D CNN -- Exploring Machine Learning Models for Solar Energy Output Forecasting -- The survival analysis of mental fatigue utilizing the estimator of Kaplan-Meier and Nelson-Aalen -- Cyber Security and Signal Processing -- EEMS - EXAMINING THE ENVIRONMENT OF THE JOB METAVERSE SCHEDULING FOR DATA SECURITY -- Text Analysis Based Human Resource Productivity Profiling -- A novel technique for analyzing the sentiment of social media posts using deep learning techniques -- Comparative Analysis of Pretrained Models for Speech Enhancement in Noisy Environments -- Use of Generative Adversarial Network (GAN) under insufficient data -- Unraveling the Techniques for Speaker Diarization -- LUT-Based Area-Optimized Accurate Multiplier Design for signal processing applications -- Speaker Recognition using Convolutional Autoencoder in Mismatch Condition with Small Dataset in noisy background -- Face Emotion Recognition based on images using the Haar-Cascade front end approach -- TextRank-based Keyword Extraction for Constructing a Domain-Specific Dictionary -- Creating a Protected Virtual Learning Space: A Comprehensive Strategy for Security and User Experience in Online Education -- LIGHTWEIGHT CRYPTOGRAPHY MODEL FOR OVERHEAD AND DELAY REDUCTION IN THE NETWORK -- Modelling the Data Object Routing in Data Aware Networking -- Image Processing -- Glaucoma Stage Classification using Image empirical mode decomposition (IEMD) and Deep Learning from Fundus Images -- Implementation and Performance Evaluation of Asymmetrical Encryption scheme for Lossless Compressed Grayscale Images -- Optimization of Single Image Dehazing based on Stationary Wavelet Transform -- A Chest X-Ray Image Based Model for Classification and Detection of Diseases -- Enlighten GAN for super resolution images from surveillance car -- Brain Tumor Classification through MR Imaging: A Comparative Analysis -- An Efficient Denoising of Medical Images Through Convolutional Neural Network.

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### Sommario/riassunto

This 2-volume set constitutes the post-conference proceedings of the 4th EAI International Conference on Cognitive Computing and Cyber Physical Systems, IC4S 2023, Bhimavaram, Andhra Pradesh, India, during August 4-6, 2023. The theme of IC4S 2023 was: cognitive approaches with machine learning and advanced communications. The 70 full papers were carefully reviewed and selected from 165 submissions. The papers are clustered in thematical issues as follows: machine learning and its applications; cyber security and signal processing; image processing; smart power systems; smart city ecosystem and communications.

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