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Nota di contenuto	Bio Signals and Recommendation Systems for Wellbeing: Diagnosis and Classification of Fetal Health Based on CTG Data Using Machine Learning Techniques -- Epileptic Seizure Prediction using Bandpass Filtering and Convolutional Neural Network -- Autism Spectrum Disorder Detection from EEG through Hjorth Parameters and

Classification using Neural Network -- A Review on Heart Diseases Prediction Using Artificial Intelligence -- Machine Learning Models to Identify Discriminatory Factors of Diabetes Subtypes -- Analysis of Hand Movement from Surface EMG Signals Using Artificial Neural Network -- Design and implementation of a drowsiness detection system up to extended head angle using FaceMesh machine learning solution -- Fuzziness based Semi-supervised Deep Learning for Multimodal Image Classification -- Human emotion recognition from facial images using Convolutional Neural Network -- Emotion Recognition from Brain Wave using Multitask Machine Learning Leveraging Residual Connections -- Emotion Recognition from EEG Using Mutual Information based Feature Map and CNN -- A Machine Learning-based System to Recommend Appropriate Military Training Program for a Soldier -- Integrated Music Recommendation System using Collaborative Content Based Filtering, and Sentiment Analysis -- A Clustering Based Niching Method for Effectively Solving the 0-1 Knapsack Problem -- Assorted, Archetypal and Annotated Two Million (3A2M) Cooking Recipes Dataset based on Active Learning -- The Impact of Data Locality on the Performance of Cluster-Based Under-Sampling -- An Analysis of Islamic Inheritance System Under Object-Oriented Paradigm -- Can Transformer Models Effectively Detect Software Aspects in StackOverflow Discussion? -- An Empirical Studies on How the Developers Discussed about Pandas Topics -- BSDRM: A Machine Learning Based Bug Triaging Model To Recommend Developer Team -- A Belief Rule Based Expert System To Diagnose Schizophrenia Using Whole Blood DNA methylation Data -- Network, Security and Nanotechnology: Reactive and Proactive Routing Protocols Performance Evaluation for MANETS Using OPNET Modeler Simulation Tools -- A Novel MIMO Antenna for 6G Applications -- Modification of Link Speed Estimation Model for IEEE 802.11ac WLANs by Considering Shadowing Effect -- Electromagnetic Absorption Analysis of 5G Wireless Devices for Different Electromagnetic Shielding Techniques -- ToothHack: An Investigation on a Bluetooth Dongle to Implement a Low-Cost and Dynamic Wireless Control Signal Transmission ystem -- Robustness of Eigenvalue-Spread Based rule of combination in Dynamic Networked System with Link Failures -- Blockchain based services in Education: A Bibliometric Analysis -- An Approach Towards Minimizing Covid-19 Situation Using Android App and Drone-Based Technology -- IoT and ML based approach for Highway Monitoring and Streetlamp Controlling -- Cyber-Attack Detection through Ensemble-based Machine Learning Classifier -- A Stacked Ensemble Spyware Detection Model Using Hyper-parameter Tuned Tree Based Classifiers -- IoT Based Framework for Remote Patient Monitoring -- Block-chain aided Cluster based Logistic Network for Food Supply Chain -- Programmable Logic Array in Quantum Computing -- QPROM: Quantum Nanotechnology for Data Storage Using Programmable Read Only Memory -- Analytical Modeling of Multi-Junction Solar Cell Using SiSn Alloy -- Design and Fabrication of a Low-Cost Customizable Modern CNC Laser Cutter -- Hole Transport Layer Free non-Toxic Perovskite Solar cell Using ZnSe Electron Transport Material -- A novel ADI based method for model reduction of discrete-time index 2 control systems -- Emerging Technologies for Society and Industry: Prevalence of Stroke in Rural Bangladesh: A Population Based Study -- Segmented-Truncated-SVD for Effective Feature Extraction in Hyperspectral Image Classification -- Effective Feature extraction via Folded-Sparse-PCA for Hyperspectral Image classification -- Segmented-Incremental-PCA for Hyperspectral Image Classification -- Spectral–Spatial Feature Reduction for Hyperspectral Image Classification -- Predicting the Risk of COVID-19

Infection Using Lifestyle Data -- Forecasting Dengue Incidence in Bangladesh using Seasonal ARIMA Model, A Time Series Analysis -- The impact of social and economic indicators on infant mortality rate in Bangladesh: A Vector Error Correction Model (VECM) approach -- Machine Learning Approaches To Predict Movie Success -- Structure of Global Financial Networks before and during COVID-19 Based on Mutual Information -- Employee Attrition Analysis Using CatBoost -- Readiness Towards Industry 4.0 of Selected Industrial Sector -- Estimating Energy Expenditure Of Push-up Exercise In Real Time Using Machine Learning -- Cross-Layer Architecture for Energy Optimization of Edge Computing -- Energy Consumption Issues of a Data Center -- Trade-offs of Improper E-waste Recycling: An Empirical Study -- A Hybrid Cloud System for Power-Efficient Cloud Computing -- A Sustainable E-Waste Management System for Bangladesh -- Machine Learning Algorithms on COVID-19 Prediction Using CpG Island and AT-CG Feature on Human Genomic Data -- Statistical and Bioinformatics Model to Identify the Influential Genes and Comorbidities of Glioblastoma -- Protein Folding Optimization Using Butterfly Optimization Algorithm.

Sommario/riassunto

The two-volume set LNICST 490 and 491 constitutes the proceedings of the First International Conference on Machine Intelligence and Emerging Technologies, MIET 2022, hosted by Noakhali Science and Technology University, Noakhali, Bangladesh, during September 23–25, 2022. The 104 papers presented in the proceedings were carefully reviewed and selected from 272 submissions. This book focuses on theoretical, practical, state-of-art applications, and research challenges in the field of artificial intelligence and emerging technologies. It will be helpful for active researchers and practitioners in this field. These papers are organized in the following topical sections: imaging for disease detection; pattern recognition and natural language processing; bio signals and recommendation systems for wellbeing; network, security and nanotechnology; and emerging technologies for society and industry.