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Autore	Mahmud Mufti
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Altri autori (Persone)	Ben-AbdallahHanene KaiserM. Shamim AhmedMuhammad Raisuddin ZhongNing
Disciplina	006.3
Soggetti	Artificial intelligence Computer engineering Computer networks Social sciences - Data processing Education - Data processing Image processing - Digital techniques Computer vision Artificial Intelligence Computer Engineering and Networks Computer Application in Social and Behavioral Sciences Computers and Education Computer Imaging, Vision, Pattern Recognition and Graphics
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Nota di contenuto	-- Emerging Applications of AI and Informatics. -- A Deep Learning-Based Neural Network Model for Autism Spectrum Disorder Prediction. -- Improving a Fuzzy Matching Engine. -- Speech Emotion Recognition: An Empirical Analysis of Machine Learning Algorithms

Across Diverse Data Sets. -- A BERT-based Chatbot to Support Cancer Treatment Follow-Up. -- Optimizing Medical Imaging Quality: An In-Depth Examination of Preprocessing Methods of Brain MRIs. -- MindData for Enhanced Entertainment Building a Comprehensive EEG Dataset of Emotional Responses to Audio-Visual Stimuli. -- A Survey on Tools and Techniques of Classification in Educational Data Mining. -- Application of AI and Informatics in Healthcare. -- A Robust and Explainable Deep Learning Method for Cervical Cancer Screening. -- Classifying Depressed and Healthy Individuals Using Wearable Sensor Data: A Comparative Analysis of Machine Learning Approaches. -- Performance Analysis of a Single-Input Thermal Image Classifier with Patient Information for the Detection of Breast Cancer. -- Investigation of HR and QT Variability for Monitoring Sleep Apnea: An Interpretable Machine Learning Approach. -- Transfer Learning-Based Ensemble of Deep Neural Architectures for Alzheimer's and Parkinson's Disease Classification. -- Classifying Emotions of Parkinsonian Patients from Electroencephalogram Signals using Efficient Attention Capsule Network. -- Early Prediction of Chronic Kidney Disease Using Machine Learning Algorithms with Feature Selection Techniques. -- A Survey on Heart Disease Prediction Using Machine Learning Techniques. -- A Fuzzy Logic-Based Framework for Accurate Detection of Infectious Diseases. -- Application of AI and Informatics in Pattern Recognition. -- A Media-pipe integrated deep learning model for ISL (Alphabet) recognition and converting Text to Speech with Video Input. -- A Driver Fatigue Detection Framework with Convolutional Neural Network and Long Short-Term Memory Network. -- FallGuardian: Wear OS-Based Machine Learning Fall Detection Framework. -- Classification of Different Cancer Types Based on RNA HI-SEQ Data Using Dimensionality Reduction. -- YOLO-V4 Based Detection of Varied Hand Gestures in Heterogeneous Settings. -- Comparative Analysis of Pre-Trained CNN Models for Neurobiological Disease Classification. -- An Overview of Data Security Algorithms in Cloud Computing. -- Application of AI and Informatics in Network, Security, and Analytics. -- Optimizing Round-Robin Scheduling Algorithm Performance in Real-time Systems. -- Enhancing Outdoor Comfort: A Machine Learning Framework for Predicting Comfort Level. -- Augmented Reality in the Fields of Management and Business: A Bibliometric Review of the Literature. -- CDSER: Sentiment Analysis for Product Selection to Enhance E-commerce Review System. -- Screening of Enhanced Oil Recovery Methods Using Supervised Machine Learning Predicated on Range Data. -- A Survey on Nature-Inspired Optimization Methods for Effective Task Scheduling in Cloud Computing Environment. -- Enhancing Internet of Things Security with Random Forest-Based Anomaly Detection. -- A Survey of Challenges Associated with Cloud Computing Security.

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### Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the Third International Conference on Applied Intelligence and Informatics, AII 2023, held in Dubai, United Arab Emirates, during October 29–31, 2023. The 31 full papers included in these proceedings were carefully reviewed and selected from 99 submissions. They are organized in these topical sections as follows: Emerging Applications of AI and Informatics; Application of AI and Informatics in Healthcare; Application of AI and Informatics in Pattern Recognition; Application of AI and Informatics in Network, Security, and Analytics.

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