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Soggetti	Artificial intelligence Algorithms Computer networks Social sciences - Data processing Education - Data processing Artificial Intelligence Design and Analysis of Algorithms Computer Communication Networks Computer Application in Social and Behavioral Sciences Computers and Education
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Nota di contenuto	Computer Vision, Image and Speech Analysis -- A novel ConvMixer transformer based architecture for violent behavior detection -- Speech Emotion Recognition: Recent Advances and Current Trends -- A Smartphone-Based Computer Vision Assistance System with Neural Network Depth Estimation for the Visually Impaired -- Hybrid Learning Model for Satellite Forest Image Segmentation -- Adaptive Pruning for

Multi-Head Self-Attention -- Fast Visual Imperfection Detection When Real Negative Examples are Unavailable -- Vision-Based Mobile Robots Control Along a Given Trajectory -- Text Guided Facial Image Synthesis using StyleGAN and Variational Autoencoder trained CLIP -- Application of object detection models for the detection of kitchen furniture - A comparison -- Support Learning Vovinam Exercises based on Computer Vision -- Semantic Segmentation Neural Network in Automatic Weapon Detection -- Various Problems of Artificial Intelligence -- An Application of Fuzzy Techniques to Predict the Polymorphism of Selected Microsatellite Sequences -- Monte Carlo Tree Search with metaheuristics -- Phishing Attack Detection: An Improved Performance through Ensemble Learning -- Removing Ambiguity in Natural Language for Generating Self Join Queries -- Predicting Churn Rate in Companies -- Training set preparation for deep model learning inpatients with ischemic brain lesions and gender identity disorder -- From Simulated to Real Environments: Q-Learning for MAZENavigation of a TurtleBot -- Bioinformatics, Biometrics and Medical Applications -- 3D Reconstructions of Brain from MRI Scans Using Neural Radiance Fields -- Exploring target identification with K-nearest neighbors' algorithm -- Computational models for COVID-19 dynamics prediction -- Electrochemical Biosensor Design through Data-Driven Modeling incorporating Meta-analysis and Big Data workflow -- A new method of verification of dynamic signatures changing over time with decomposition and selection of characteristic descriptors -- Impact of the pre-processing and balancing of EEG data on the performance of graph neural network for epileptic seizure classification -- A new rebinning reconstruction method for the low dose CT scanners with flying focal spot -- Data Mining and Pattern Classification -- Advancing Singular Value Decomposition Techniques for Enhanced Data Mining in Recommender Systems -- An experimental analysis on mapping strategies for cepstral coefficients multi-projection in voice spoofing detection problem -- Mining Correlated High-Utility Itemsets using the Cosine Measure -- Bayesian Inference in Infinite Multivariate McDonald's Beta Mixture model -- Cannabis Use Estimators within Canadian Population using Social Media Based on Deep Learning Tools -- On the Bayesian interpretation of penalized statistical estimators -- Synthetic Data for Feature Selection -- ML Support For Conformity Checks in CMDB-Like Databases -- An Improvement of Graph Neural Network for Multi-behavior Recommendation -- Binary Matrix Factorization Discretization -- Combining linear classifiers using score function based on distance to decision boundar.

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## Sommario/riassunto

The two-volume set LNAI 14125 and 14126 constitutes the refereed conference proceedings of the 22nd International Conference on Artificial Intelligence and Soft Computing, ICAISC 2023, held in Zakopane, Poland, during June 18–22, 2023. The 84 revised full papers presented in these proceedings were carefully reviewed and selected from 175 submissions. The papers are organized in the following topical sections: Part I: Neural Networks and Their Applications; Evolutionary Algorithms and Their Applications; and Artificial Intelligence in Modeling and Simulation. Part II: Computer Vision, Image and Speech Analysis; Various Problems of Artificial Intelligence; Bioinformatics, Biometrics and Medical Applications; and Data Mining and Pattern Classification. .

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