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Nota di contenuto	Neural Networks and Their Applications -- A novel approach to the GQR algorithm for neural networks training -- On Speeding Up the Levenberg-Marquardt Learning Algorithm -- Reinforcement Learning with Brain-Inspired Modulation Improves Adaptation to Environmental Changes -- Multi-Agent Deep Q-Network in Voxel-based Automated Electrical Routing -- Evaluation of the importance of optimizer selection in streaming neural network learning -- Training Neural Tensor Networks With Corrupted Relations -- Application of Monte Carlo Algorithms with Neural Network-Based Intermediate Area to the Thousand Card Game -- Learning representations by crystallized back-propagating errors -- Fuzzy Hyperplane based K-SVCR Multi-class Classification with Its Applications to Stock Prediction Problem -- Dynamic Hand Gesture Recognition for Human-Robot Collaborative Assembly -- Transfer of knowledge among instruments in automatic music transcription -- The Geometry of Decision Borders Between

Affine Space Prototypes for Nearest Prototype Classifiers -- An Interpretable Two-Layered Neural Network Structure – Based on Component-wise Reasoning -- Viscosity Estimation of Water-PVP Solutions from Droplets using Artificial Neural Networks and Image Processing -- Pruning convolutional filters via reinforcement learning with entropy minimization -- Unsupervised Representation Learning: Target Regularization for Cross-domain Sentiment Classification -- Decentralized federated learning loop with constrained trust mechanism -- Learning Activation Functions for Adversarial Attack Resilience in CNNs -- Federated Learning for Human Activity Recognition on the MHealth Dataset -- Image Classification through Graph Neural Networks and Random Walks -- Bus Route Classification for Rural Areas using Graph Convolutional Networks -- Expansion rate parametrization and K-Fold inference with U-Net neural networks for multiclass medical image segmentation -- Transfer learning from ImageNet to the domain of pigmented nevi -- Towards Detecting Freezing of Gait Events using Wearable Sensors and Genetic Programming -- CNN-LSTM Optimized by Genetic Algorithm in Time Series Forecasting: An Automatic Method to use Deep Learning -- Authorship Attribution of Literary Texts using Named Entity Masking and MaxLogit-based Sequence Classification for Varying Text Lengths -- Gates Are Not What You Need in RNNs -- Generating Image Captions in Polish using Transformer Architecture -- Evolutionary Algorithms and Their Applications -- An hybrid NSGA-II algorithm for the Bi-objective Mobile Mammography Unit Routing Problem -- Controlled Refresh of the Population in Differential Evolution for Real-World Problems -- A new Hybrid Particle Swarm Optimization and Evolutionary Algorithm with Self-Adaptation Mechanism -- Data Mining Car Configurator Clickstream Data to Identify Potential Consumers: A Genetic Algorithm Approach -- Multi-population algorithm using surrogate models and different training plans -- Multi-population-based algorithms with different migration topologies and their improvement by population re-initialization -- Machine Learning Assisted Interactive Multi-Objectives Optimization Framework: A Proposed Formulation and Method for Overtime Planning in Software Development Projects . -- Improved Barnacles Movement Optimizer (IBMO) Algorithm for Engineering Design Problems -- Evolutionary-based generative design for electric transmission towers -- Enhanced Grey Wolf Optimizer -- Artificial Intelligence in Modeling and Simulation -- Security Intelligence for real-time security monitoring software -- Examine Effects of Class Imbalance on Conditional GAN Training -- Stochastic Model for Wildfire Simulation based on the characteristics of the Brazilian Cerrado -- Test Case Generator for Problems of Complete Coverage and Path Planning for Emergency Response by UAVs -- Application of artificial neural networks in electric arc furnace modeling -- Profiling users of the online store in terms of price sensitivity . -- Learning Bezier-Durrmeyer type descriptors for classifying curves – preliminary studies -- Prediction accuracy of direction changes with ELM, MLP and LSTM on the example of exchange rates -- Child tracking and Prediction of Violence on Children in social media using Natural Language Processing and Machine Learning -- Adequate basis for the data-driven and machine-learning-based identification.

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 Pateern Classification. .