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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.

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. .
