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    Nota di contenuto   -- I Evolutionary Algorithms and Their Applications. -- MI-DAUKF for Co-Estimation of SOC and SOH in Lithium-ion Batteries. -- Hybridising Genetic Programming Variants for Regression. -- Evolving Velocity Equations for Particle Swarm Optimisation for Function Approximation. -- A Comparison of Genetic Programming and Grammatical Evolution

for the Generation of Fuzzy ART Choice Functions. -- Cartesian Genetic Programming with a Modified Selection Operator for Combinational Circuit Design: Arithmetic Multipliers and Adders. -- Automated Design of Multilevel Thresholding using Differential Evolution. -- II Artificial Intelligence in Modeling and Simulation. -- AI-based IoT System for Energy Forecasting and Load Management in Smart Grid. -- Learning Optimal Bidding Strategies in All-Pay Auctions. -- On Handling AI Tasks in CPU with Low Latency and High Performance. -- Utilizing Evolutionary Algorithms for the Synthesis of Cryptographic Substitution Patterns. -- Advanced Steganography in 3D Models: An AI-Powered Approach. -- A Novel Approach to Cancelable Biometrics through Deep Learning Distortion Metrics. -- More individualized survival function estimation using training data clustering. -- Automated Typographic Font Generation Using Artificial Intelligence. -- Model of generative adversarial neural network for font style generation within the original style. -- Eigenmaps - modified PCA-based approach for dimensionality reduction of multivariate time series of geospatial data. -- Evaluation of Dermatological Asymmetry Measure of Shape by Expectation-Maximization. -- Embedding Non-Distortive Cancelable Face Template Generation. -- III Computer Vision, Image and Speech Analysis. -- Dimensionality reduction in multicepstral features for voice spoofing detection: case studies with singular value decomposition, genetic algorithm, and auto-encoder. -- InpaintLocalizer: Detection and Localization of Inpainting Generated by Diffusion-based Machine Learning Models. -- Combining Audio and Image Sequence for Video Moment Retrieval by Natural Language. -- Robust Scale Estimation System for Monocular Mobile Robots using Beacon-based Structure from Motion. -- Explainable Recognition System for Computer-Modified Face Photos. -- Implementing call bots: An architectural guide. -- Identification of mislabelled images with data augmentation. -- Viscosity Estimation in Water-PVP Solutions Through Droplet Image Analysis Using a MobileNet-Enhanced CNN. -- Dynamic Layer Extraction for Floor Plan Generation from Point Clouds. -- Bleeding detection in medical images based on correlation fractional dimension adaptive thresholding. -- Knee or ROC. -- Enhanced Dermatological Asymmetry Measure of Skin Lesions using PCA Method. -- Transformer Based Semantic Segmentation Network for Medical Imaging Application.

Sommario/riassunto	The two-volume set ICAISC 2024 15164, 15165 and 15166 constitutes the refereed proceedings of the 23rd International Conference on Artificial Intelligence and Soft Computing, ICAISC 2024, held in Zakopane, Poland, during June 16–20, 2024. The 96 full papers included in this book were carefully reviewed and selected from 179 submissions. They are organized in topical sections as follows: Part I - neural networks and their applications; pattern classification. Part II - evolutionary algorithms and their applications; artificial intelligence in modeling and simulation; computer vision, image and speech analysis. Part III - various problems of artificial intelligence; bioinformatics, biometrics and medical applications.