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Nota di contenuto	-- Various Problems of Artificial Intelligence. -- Agent-Based Model for Field Service Management. -- Evaluating policy effectiveness to enhance smart farming technologies adoption using fuzzy logic and Sugeno integral. -- Functional based fuzzy logic query library. -- Automatic Program Assessment, Grading and Code Generation:

Possible AI-Support in a Software Development Course. -- Computer Network User Profiling using Firewall Logs and ANFIS-based Hybrid Systems. -- Different Approaches for Customer Lifetime Value in e-Book Subscription Domain. -- Tweeting on an Empty Stomach: Unpacking Food Price Hikes and Inflation via Twitter. -- Memory Augmented Multi-Agent Reinforcement Learning for Cooperative Environment. -- The use of fuzzy sets in the classification of metagenomic data. -- Speech deepfake recognition with data-efficient vision transformers. -- Explainable Cubic Attention-based Autoencoder for Skin Cancer Classification. -- A Study of Classifiers for Marking Short Answers in Intelligent Tutoring Systems. -- Ontology-based rare disease database integration - practical issues and challenges. -- A Review of the Challenges with Massive Web-mined Corpora Used in Large Language Models PreTraining. -- A Hybrid Approach towards Vertical Handover in 5G Networks using Genetic Neuro-Fuzzy Controller. -- Swarm Optimization for Enhanced Random Forest-Based IoT Security. -- PV solar power forecasting using a subset of characteristic features selected by AI methods. -- Pain intensity assessment using Recurrent Neural Networks. -- Improving YOLOv8: An Algorithm Based on EfficientRepHead and BIFPN. -- T-REX: Trustworthy and Reliable EXplainability Framework. -- Bioinformatics, Biometrics and Medical Applications. -- Multi-Label Long-Tailed Disease Recognition on Chest X-ray Images. -- Myo-to-Gesture: Evolving AI-Based Innovations in Myoelectric Signal Processing – State-of-the-Art Survey and Research Proposal. -- A new image enhancement-based framework for spoofing detection in ear-based biometric authentication systems. -- From Omics Data to Candidate Genes: An Innovative Machine Learning Approach for Biomarker Identification. -- Machine Learning-Based Tool for Efficient Discrimination Between Deleterious and Neutral Missense Mutations. -- Classification of cardiac arrhythmias using 1D and 2D convolutional neural networks. -- Can algorithms used in automatic preprocessing affect the final value of brain volume? - preliminary study. -- Pupil Constrictions and Dilations Effects as Data Augmentation on an Iris Recognition CNN Approach. -- Breaking the Mold: ViT-CNN Fusion for Enhanced Glaucoma Prediction in OCT Images. -- Positioning the Reconstruction Plane for a Statistical Iterative Reconstruction Algorithm with Rebinning in CT Scanners with a Flying Focal Spot. -- Biometric iris authentication using a segmentation network with attention and a key-points detection algorithm. -- Polyps Segmentation in Colonoscopy Images using SegFormer Transformer. -- Wavelet feature extraction for dermoscopy images by tree-like wrappers.

| 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. |