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Nota di contenuto	-- Route Planning Problem. -- Solving the Traveling Salesman Problem for Efficient Route Planning through Swarm Intelligence Based Optimization. -- An Improved Genetic Algorithm for Vehicle Routing Problem with Time Window Requirements. -- Automated Planning and Scheduling with Swarm Intelligence. -- Grouping and Angle Partitioning-Based Coverage Path Planning for Swarm Robots Using Only Local Communication. -- A Hyper-heuristic Algorithm Based on Q-learning for 3D Drone Trajectory Planning. -- Machine Learning. -- Robust Heterogeneous Federated Learning via Data-Free Knowledge Amalgamation. -- Efficient Multilevel Spatial Co-location Pattern

Discovery Based on Density-wise Clustering and MC-Hash Structure. -- Multiple Machine Learning Methods with Correlation Analysis for Short-term River Water Quality Prediction. -- FGFL: Fine-Grained Federated Learning based on Neural Architecture Search for Heterogeneous Clients. -- Federated Neural Architecture Search with Hierarchical Progressive Acceleration for Medical Image Segmentation. -- IS-SQL: Knowledge-Enhanced In-Context Learning and Self Correction of Text-to-SQL. -- Research on the Operation Strategy of S Internet Hospital Based on Business Intelligence. -- Complex Network-based Decision-making Analysis of Strikes on Important Nodes of a Typical Kill Chain. -- Pixel Importance-based Transfer Adversarial Attack. -- Data-Driven Intervention Strategies for Mitigating Illegal Wildlife Trade: A Case Study of the United States. -- Detection and Prediction. -- Lung Nodule Detection Based on Spike-driven Self-attention YOLO. -- Unsupervised Microservice Log Anomaly Detection Method Based on Graph Neural Network. -- Deep Learning-based Customer Lifetime Value Prediction in Imbalanced Data Scenarios: A Case Study. -- Improving the Accuracy of Predictive Models in Imbalanced Lung Cancer Data. -- Classification. -- Multimodal Imaging Classification Based on Mixture Model Networks. -- Confidence-guided online knowledge distillation for semi-supervised medical image classification. -- Research on classification method of construction laws and regulations data. -- Identity Authentication Methods Based on User Profiling. -- Automatic Hyperspectral Image Clustering using Qutrit Differential Evolution. -- Comparative Evaluation of Classification Techniques for Predicting Risk and Recurrence of Thyroid Disorders. -- Edge Computing. -- Hierarchical Diffusion Teaching-learning-based Optimizer with Variational Autoencoder for Mobile Edge Computing System Optimization. -- ESEC: A New Edge Server Selection Algorithm under Muiti-access Edge Computing. -- Edge Dynamic Service Offloading Based on Multi-Agent Deep Q Learning. -- Modeling and Optimization. -- New Design Algorithm: Interactive-Generative Product Design for Shape Generation and Optimization. -- Designing a Social Network Framework Utilizing New Swarm and P2P Technologies for Application in Office Automation. -- Research on the basic combat round model of over-the-horizon air combat. -- An Offline Modeling Approach to Air Combat Maneuvering Policy. -- Neural Network Algorithm for Solving Nonlinear Equation Systems. -- Heart Failure Mortality Prediction: A Comparative Study of Predictive Modeling Approaches. -- Analysis of Review. -- Convolutional Neural Networks in Medical Imaging: A Review. -- A review of the analysis and evaluation of air combat situation and decision-making methods. -- Analyzing the Online Reviews to Explore Recent Trends of the U.S. Automotive Industry by Latent Dirichlet Allocation Method.

Sommario/riassunto

This two-volume set LNCS 14788 and 14789 constitutes the refereed post-conference proceedings of the 15th International Conference on Advances in Swarm Intelligence, ICSI 2024, held in Xining, China, during August 23–26, 2024. The 74 revised full papers presented in these proceedings were carefully reviewed and selected from 156 submissions. The papers are organized in the following topical sections: Part I - Particle swarm optimization; Swarm intelligence computing; Differential evolution; Evolutionary algorithms; Multi-agent reinforcement learning & Multi-objective optimization. Part II - Route planning problem; Machine learning; Detection and prediction; Classification; Edge computing; Modeling and optimization & Analysis of review.