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Nota di contenuto	-- Games and Decision Theories. -- Deterministic and Nondeterministic Decision Trees for Recognition of All Realizable Decision Rules. -- Billiards-based Generation of Multi-task, Dense Subitizing Detection Diagrams. -- GAMER-Pong: Game Adjustment by Monitoring Emotional Response. -- Image Processing and Computer Vision. -- Machine Learning Algorithms for Hand sEMG-recorded Movements. -- Boosting Face Super-Resolution and Identification with Knowledge Distillation and Frequency Domain Loss. Improving

Efficiency Image Captioning by using Attention Mechanism combined with Knowledge Graph. -- An approach of fuzzy-enhanced multi-viewed image embedding fusion for spinal disease detection. -- Boosting Lightweight Multi-Branch Network by Integrating Segment, Skeleton, and Attribute Information. -- Continuous Recognition of Mouth Patterns in Japanese Sign Language for Visual Communication. -- Towards an UAV Visual Navigation System Based on Map Processing and Spatial Matching Techniques: a Literature Review. -- Image enhancement with Boosted Schrödinger Bridge. -- Intelligent Techniques in Optimization. -- Kernel-Level Energy-Efficient Neural Architecture Search for Tabular Dataset. -- Estimation of Distribution Algorithms with Overlapped Populations. -- Energy-Efficient Edge Query Processing for Smart City using Query Prediction. -- Influence Maximization with Fairness Cost on Groups in Online Social Networks. -- TMMP: Efficient Continual Learning via Mixture of LoRA Experts and Top Maximum Magnitude Parameter Fusion. -- ADMEdge: Accelerating Edge Computing through Co-Design for Enhanced Data Mobility. -- Machine Learning Techniques and Applications. -- The recursive scheme of clustering. -- TOPSIS-inspired Socio-cognitive Mutation Operator for Metaheuristics. -- Feature-Based Drift Detection in Non-Stationary Data Streams Using Multiple Classifiers: A Comprehensive Analysis. -- A Feature Transformation Technique for Improving Ensemble Learning Systems. -- Explainable Artificial Intelligence to Improve Interpretability in Predictive Mutation Testing. -- An Analysis of Class Imbalance Challenges in Predictive Mutation Testing. -- Efficient Vietnamese Name Detection using Highly Discriminative N-Grams. -- Evaluation of the effectiveness of ranking methods in detecting feature drift in artificial and real data. -- Using Artificial Neural Networks for Automated Lithologic Mapping and Mineral Exploration in Mayantoc, Tarlac, and San Juan, Batangas. -- Enhancing Accuracy and Stability in XAI for Context-specific Applications. -- Integration of Dynamic Window Sizing with Neural Network Architectures for Real-Time Cryptocurrency Predictions. -- Domain-oriented GCN method for Sentiment Analysis.

## Sommario/riassunto

This two-volume proceedings, LNAI 15683 and LNAI 15684, constitutes the proceedings of the 17th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2025, held in Kitakyushu, Japan, during April 23-25, 2025. The 56 full papers and presented in these two volumes were carefully reviewed and selected from 301 submissions. The papers are organized in the following topical sections: Part I: Data Mining, Processing and Integration; Deep Learning Methods and Applications; Generative Models Applications; Intelligent Information Systems and Problem-Solving Algorithms. Part II: Games and Decision Theories; Image Processing and Computer Vision; Intelligent Techniques in Optimization; Machine Learning Techniques and Applications.