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Nota di contenuto	-- AI Logic Foundation. -- Game Semantics for Modal Logic with Counting. -- Adding concurrency to Quantum Dynamic Logic. -- Lattices for Many-logics Modal Logic: constructions and representations. -- A note to the construction of t-norms based on TnM. -- Conditional Distributivity of S-uninorms and T-uninorms over Uninorms. -- Fuzzy Integrals Induced From Semi-Quasi-Overlap (Grouping) Functions. -- The Research on the multi-agent argumentation Semantics. -- An exercise in Uppaal: Modelling the circadian clock of a cyanobacteria. -- AI Logic Reasoning. -- Semi-Quasi-Overlap Functions and Their Applications in Classifier Ensemble. -- Data and Knowledge Dual-Driven Traffic Sign Recognition

Algorithm. -- Automatic Inspection of Static Application Security Testing (SAST) Reports via Large Language Model Reasoning. -- Semantic Abstractions for Multi-label Classification. -- Multi-granularity Semantic Representation and Rule-based Labeling for Relation Classification. -- AI Logic Applications. -- Feature Representation Learning based on Graph Curvature-revised Deep Graph Learning. -- Non-negative Tensor Representation and Unsupervised Classification of Object Pose in Continuous Image Sequences. -- An Optimal Scheduling Algorithm for Intelligent Embedded Heterogeneous Multicore System. -- Kernel Cutset-type Possibility C-Means Algorithm for Gaussian Granularity. -- Research on Fusion Modeling for Active Magnetic Bearings Based on Mechanism and Data Driven. -- Multi-Objective Waterborne Trash Tracking based on D-StrongSORT. -- A Contributor-Based Segmentation Model for Open Source Software Source Code Trustworthiness Measurement. -- Facilitating the Propagation of Oscillatory Signals in Cortical Networks through Mixed Resonance. -- An Empirical Study for Source Code Incompatibility Between Versions of Java Open-Source Software. -- Exploring Multi-source Mobile Applications Association Discovery Based on Representation Learning. -- Takagi–Sugeno Target Recognition Algorithm Based on Global Intuitionistic Fuzzy Method. -- Automated Legality Detection on Privacy Policy Based on Deep Learning. -- CNN lung sound recognition and classification model based on multi-feature fusion and data enhancement. -- The Specialization of AGI: Exploration of Industrial Applications for General Artificial Intelligence.

Sommario/riassunto

This book constitutes the proceedings of the 4th International Conference on Artificial Intelligence Logic and Applications, AILA 2024, held in Lanzhou, China, during August 10–11, 2024. The 16 full papers and the 11 short papers included in this volume were carefully reviewed and selected from 45 submissions. The papers cover the following topics: AI logic foundation; AI logic reasoning; AI logic applications.
