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Nota di contenuto	-- Decision making and uncertainty. -- Measurable Closure of a Finitely-Additive Measure Space: An Analysis of Spaces Similar to Stone Spaces. -- Ecological Inference for Electoral Analysis: A Computational Perspective on Human Decision-Making. -- Dimensionality reduction with entropies from f-divergences. -- ChessFormer - Modeling human decision making in chess. -- Simulating Electoral Behavior. -- Multi-criteria Assessment of Clustering Procedures in E-Commerce. -- Automated Decision-Making via Reinforcement Learning from Demonstrations. -- Decision Analysis with the Hurwicz Decision Map

under a Set of Interval Pri- ority Weight Vectors. -- An Investigation of Alternative Methods for the Inference of Probabilistic-Fuzzy Systems. -- Triangular Fuzzy Rescaling Distance. -- Data privacy. -- The differentially private d-Choquet integral: an extension of differentially pri- vate Choquet integrals. -- Defenses Against Membership Inference Attacks on Unlearned Data. -- Differential Private Risk Factors Analysis of Polypharmacy. -- Towards Lightning Network Channel Randomization. -- Assessing Privacy Requirements for Controlled Query Evaluation in OBDA. -- Machine learning. -- On Sharma-Mittal divergence-regularized Fuzzy c-Means Clustering and its Alternative. -- Probabilistic-Fuzzy Inference with Piecewise Linear Quantile Regression. -- Positive Unlabeled Classification Methods with Logistic Regression Revisited: An Evaluation of Optimization Techniques. -- Kacper Paczutkowski, Konrad Furma´nczyk Comparing Transformer Models for Stock Selection in Quantitative Trading. -- Data science. -- Decision Rules for Replicating the Visual Learning of the Blackboard in Digital Presentations. -- Dual Focus: Transforming Negatives into Knowledge. -- Testing monotonicity of similarity functions based on embeddings. -- Hybrid Transformer-ANFIS Architecture for Sentiment Analysis. -- Comparing Qualitative Object Descriptors using a Visual Similarity Measure. -- Improving Machine Understanding of Czech Medical Text Using Self-Supervised and Rule-Based Data Augmentation. -- Refining Community Detection in Social Networks: Agglomerative and Divisive Methods with Size Constraints. -- Comparing Graph Neural Networks for Single and Multi-Layer Brain Connec- tivity Analysis in Multiple Sclerosis. -- Enhancing Ultra-Low-Bit Quantization of Large Language Models Through Saliency-Aware Partial Retraining.

Sommario/riassunto

This book constitutes the refereed proceedings of the 22nd International Conference on Modeling Decisions for Artificial Intelligence, MDAI 2025, held in Valencia, Spain, during September 15-18, 2025. The 28 full papers were carefully reviewed and selected from 58 submissions. They are organized in topical sections as follows: Decision making and uncertainty; Data privacy; Machine learning and Data science.