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Nota di contenuto	Ambient Intelligence and Affective Environments: Simulation-Based Adaptive Interface for Personalized Learning of AI Fundamentals in Secondary School -- Gamified CollectiveEyes: A Gamified Distributed Infrastructure for Collectively Sharing People's Eyes -- Design and Development of Ontology for AI-based Software Systems to Manage the Food Intake and Energy Consumption of Obesity, Diabetes and Tube Feeding Patients -- A System for Animal Health Monitoring and Emotions Detection -- Ethics and Responsibility in Artificial

Intelligence: A Three-Way Knot: Privacy, Fairness, and Predictive Performance Dynamics -- A Maturity Model for industries and organizations of all types to better adopt Responsible AI – preliminary results -- Completeness of Datasets Documentation on ML/AI repositories: an Empirical Investigation -- Navigating the landscape of AI ethics and responsibility -- Towards Interpretability in Fintech Applications via Knowledge Augmentation -- General Artificial Intelligence: Revisiting Deep Attention Recurrent Networks -- Pre-training with Augmentations for Efficient Transfer in Model-based Reinforcement Learning -- DyPrune: Dynamic pruning rates for neural networks -- Robustness Analysis of Machine Learning Models using Domain-Specific Test Data Perturbation -- Vocalization Features to Recognize Small Dolphin Species for Limited Datasets -- Covariance Kernel Learning Schemes for Gaussian Process Based Prediction using Markov Chain Monte Carlo -- Intelligent Robotics: A Review on Quadruped Manipulators -- Knowledge Discovery and Business Intelligence: Pollution Emission Patterns of Transportation in Porto, Portugal through Network Analysis -- Analysis of Dam Natural Frequencies Using a Convolutional Neural Network -- Imbalanced Regression Evaluation under Uncertain Domain Preferences -- Studying the impact of sampling in highly frequent time series -- Mining Causal Links Between TV Sports Content and Real-World Data -- Hybrid SkipAwareRec: A Streaming Music Recommendation System -- Interpreting What Is Important: An Explainability Approach And Study On Feature Selection -- Time-series pattern verification in CNC machining data -- Time-series pattern verification in CNC machining data -- Time-series pattern verification in CNC machining data -- Measuring latency-accuracy trade-offs in Convolutional Neural Networks -- MultiAgent Systems: Theory and Applications: Machine Learning Data Markets: Evaluating the Impact of Data Exchange on the Agent Learning Performance -- Machine Learning Data Markets: Evaluating the Impact of Data Exchange on the Agent Learning Performance -- Natural Language Processing, Text Mining and Applications: Topic Model with Contextual Outlier Handling: a Study on Electronic Invoice Product Descriptions -- Tweet2Story: Extracting Narratives From Twitter -- Argumentation Mining from Textual Documents Combining Deep Learning and Reasoning -- Event Extraction for Portuguese: A QA-driven Approach using ACE-2005 -- Symbolic vs Deep Learning Techniques for Explainable Sentiment Analysis -- Assessing Good, Bad and Ugly Arguments Generated by ChatGPT: a New Dataset, its Methodology and Associated Tasks -- Assessing Good, Bad and Ugly Arguments Generated by ChatGPT: a New Dataset, its Methodology and Associated Tasks -- OSPT: European Portuguese Paraphrastic Dataset with Machine Translation -- Task Conditioned BERT for Joint Intent Detection and Slot-filling -- Planning, Scheduling and Decision-Making in AI: Data-driven Single Machine Scheduling Minimizing Weighted Number of Tardy Jobs -- Heuristic Search Optimisation using Planning and Curriculum Learning Techniques -- Social Simulation and Modelling: Review of Agent-Based Evacuation Models in Python.

Sommario/riassunto

The two-volume set LNAI 14115 and 14116 constitutes the refereed proceedings of the 22nd EPIA Conference on Progress in Artificial Intelligence, EPIA 2023, held in Faial Island, Azores, in September 2023. The 85 full papers presented in these proceedings were carefully reviewed and selected from 163 submissions. The papers have been organized in the following topical sections: ambient intelligence and affective environments; ethics and responsibility in artificial intelligence; general artificial intelligence; intelligent robotics;

knowledge discovery and business intelligence; multi-agent systems: theory and applications; natural language processing, text mining and applications; planning, scheduling and decision-making in AI; social simulation and modelling; artificial intelligence, generation and creativity; artificial intelligence and law; artificial intelligence in power and energy systems; artificial intelligence in medicine; artificial intelligence and IoT in agriculture; artificial intelligence in transportation systems; artificial intelligence in smart computing; artificial intelligence for industry and societies.
