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Autore	Correia Luís
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Altri autori (Persone)	RosáAiala GarijoFrancisco J
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Nota di contenuto	AI Engineering & Applications -- Adjusting Convolution Blocks of U-Net to Improve Sugarcane Crop Line Segmentation -- Mapping Motion: A Cognitive Approach to Dyspraxia Multimodal Analysis -- Improving Assembly Lines with Digital Twins: A Synthetic Case Study -- Peak Ground Acceleration Prediction for Earthquake Early Warning with Multivariable Long Short-Term Memory Networks and Temporal

Transformers -- Green Security Along Trails -- Identification of dating violence with Machine Learning algorithms: analysis and results -- Capturing the Essence of Plankton: A Gradient-weighted Class Activation Mapping Analysis -- Agent-Based Model and Machine Learning for the Analysis of Barter Regulated by Lotka-Volterra Equations -- A Geometric Attention Mechanism to Classify Parkinsonism Smooth Pursuit Patterns -- A Mixed Audio-video SPD Network for Online Classification of Parkinsonian Speech Patterns -- Transformers for Genomic Prediction -- AI-assisted bronchoscopy in the intensive care unit: Corpus development and an application to anatomic position identification -- Bio-inspired & Soft Computing -- Evaluation of Mares Uterine Health based on Endometrial Biopsies using Image Processing and Machine Learning Techniques -- Computer Vision & Robotics -- X-COVNet: Externally Validated Model for Computer-Aided Diagnosis of Pneumonia-Like Lung Diseases in Chest X-Rays -- Fairtrees: A Deep Learning Approach for Identifying Deforestation on Satellite Images -- Ensembling Convolutional Neural Networks for Human Skin Segmentation -- Risk Assessment for Autonomous Landing in Urban Environments using Semantic Segmentation -- Visual SLAM in Underground Environments: Preliminary Results -- Sound-based Parakeets Detection System -- Knowledge Representation & Reasoning -- AI-based Medical Education: Coping with Clinical Decisions in GLARE-Edu -- Generating Contrastive Explanations from Gradual Semantics Ranking -- Automatic Classification of Secondary and High School Students Dropout Risk via Knowledge Graphs and Machine Learning -- Machine Learning -- Semi-Supervised Hierarchical Bayesian Multi-label Classification -- Advancing Photovoltaic Forecasting with Neural Networks: Integrating N-Beats and Sequential Models with Fourier Analysis -- Efficiency of the Transformer Model in Time Series Forecasting: A Case Study in Wastewater Treatment Plants -- Bayesian Regularized Iterative Soft Thresholding Algorithm -- Performance Evaluation of Data Analysis Techniques in Dry Bean Seed Classification Using kNN and MLP.- Integrating Convolutional Neural Networks and Omics to Promote Precision Medicine in Atopic Dermatitis -- Multi Agent Systems -- Reliability Analysis of Organization-based Multiagent System Designs -- Emotions Identification in Exchanges of Messages between Agents -- Explaining Task Delegation Through Argumentation Debates with Votes -- Natural Language Processing -- Te Ahorré Un Click: A Revised Definition of Clickbait and Detection in Spanish News -- Entrainment-Metrics: An Open-Source Toolkit for Quantifying Acoustic-Prosodic Entrainment in Spoken Dialogue -- Derivation Prompting: A Logic-Based Method for Improving Retrieval-Augmented Generation -- Information Extraction from Electronic Health Records written in Spanish for Epidemic Intelligence -- Social AI -- From AI Act to Public-Private-People Partnerships: Building AI as a Global Public Good -- Assessing AI's Persuasive Power: Can an AI Agent Influence Belief in News?

Sommario/riassunto

This volume LNCS 15277 constitutes the refereed proceedings of the 18th Ibero-American Conference on AI, IBERAMIA 2024, held in Montevideo, Uruguay, during November 13–15, 2024. The 36 full papers presented together with 14 short papers were carefully reviewed and selected from 96 submissions. The conference focuses on AI engineering & applications; bio-inspired & soft computing; computer vision & robotics; knowledge representation & reasoning; machine learning; multi agent systems; natural language processing; and social AI.
