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Predicting Protein Residue RNA Base Binding. -- FWin transformer for dengue prediction under climate and ocean influence. -- ENGinnSAND: A Reference Dataset for Monocular Depth Prediction of Line Structures. -- Topological Layering of Mouse Brain Activity in Light Sheet Microscopy Datasets. -- A Constraint Based Savings Algorithm for the Traveling Salesman Problem. -- Gaussian process interpolation with conformal prediction: methods and comparative analysis. -- Using embeddings of pre trained models for cross database dysarthria detection: supervised vs. self supervised approach. -- Personality Profiling for Literary Character Dialogue Agents with Human Level Attributes. -- Integrating Logit Space Embeddings for Reliable Out of Distribution Detection. -- A Computational Framework for Identifying Salient Moments in Motion Capture Data. -- Machine Learning for the Evaluation of the Nephrops Norvegicus Population. -- Enhancing Cluster Based Topic Models through Parametric Dimensionality Reduction with Transformer Encoders. -- Enhancing Arrhythmia Detection Using an Ensemble of Transformer Models for Heartbeat Classification. -- Rapidly Computing Approximate Graph Convex Hulls via FastMap. -- Deep Gaussian mixture model for unsupervised image segmentation. -- Address Classification in E commerce Logistics Using Federated Learning.

Sommario/riassunto

The three-volume set LNAI 15508-15510 constitutes the refereed proceedings of the 10th International Conference on Machine Learning, Optimization, and Data Science, LOD 2024, held in Castiglione della Pescaia, Italy, during September 22–25, 2024. This year, in the LOD Proceedings decided to also include the papers of the fourth edition of the Symposium on Artificial Intelligence and Neuroscience (ACAIN 2024). The 79 full papers included in this book were carefully reviewed and selected from 127 submissions. The LOD 2024 proceedings focus on machine learning, deep learning, AI, computational optimization, neuroscience and big data that includes invited talks, tutorial talks, special sessions, industrial tracks, demonstrations and oral and poster presentations of refereed papers.