1. Record Nr. UNINA9911046536603321

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| Titolo | Advances in Neural Networks – ISNN 2025 : 19th International Symposium on Neural Networks, Zhangye, China, August 22–24, 2025, Proceedings / / edited by Long Jin, Lidan Wang |
| Pubbl/distr/stampa | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026 |
| ISBN | 9789819512331<br>9789819512324 |
| Edizione | [1st ed. 2026.] |
| Descrizione fisica | 1 online resource (948 pages) |
| Collana | Lecture Notes in Computer Science, , 1611-3349 ; ; 15951 |
| Altri autori (Persone) | WangLidan |
| Disciplina | 006.3 |
| Soggetti | Artificial intelligence<br>Numerical analysis<br>Computer vision<br>Algorithms<br>Artificial Intelligence<br>Numerical Analysis<br>Computer Vision<br>Design and Analysis of Algorithms |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | -- Design, Modeling and Application of AI Algorithms. -- Hybrid Architecture Accelerator Co-design for DNN on FPGA and ASIC. -- Modeling Competitive Behavior in Weight-Unbalanced Social Networks. -- DeeP-Mod: Deep Dynamic Programming based Environment Modelling using Feature Extraction. -- Muography Inversion Based on First-Order Optimization Algorithm. -- Regression-based Index Tracking versus Clustering-based Index Tracking: An Empirical Study. -- Adversarial Imitation Learning Based on Weighted Wasserstein Distance. -- Robust and Efficient Early Exit for Large Language Models: Mitigating KV Cache Loss and Enhancing Exit Stability. -- CDEDI: A Conditional Diffusion Based Model for Environmental Data imputation. -- Joint Forecasting of Stock Price Change Rate Based on Pretrained Models Using Text and Temporal Data. -- Multimodal Deep Learning for Retinal Disease Diagnosis. |

Sommario/riassunto

This volume constitutes the refereed proceedings of the 19th International Symposium on Neural Networks, ISNN 2025, held in Zhangye, China, during August 22–24, 2025. The 52 full papers were carefully reviewed and selected from 60 submission. They were organized in topical sections as follows: Design, Modeling and Application of AI Algorithms; Signal, Image, and Video Processing; Modeling, Analysis, and Implementation of Neural Networks; Control Systems, Robotics, and Autonomous Driving; Machine Learning Methods and Applications.