1. Record Nr. UNISA996691661403316

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Titolo	Bioinformatics and Biomedical Engineering : 12th International Conference, IWBBIO 2025, Gran Canaria, Spain, July 16–18, 2025, Proceedings, Part II / / edited by Ignacio Rojas, Francisco Ortuño, Fernando Rojas Ruiz, Luis Javier Herrera, Olga Valenzuela, Juan José Escobar
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	9783032084521
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (458 pages)
Collana	Lecture Notes in Bioinformatics, , 2366-6331 ; ; 16051
Disciplina	570.285
Soggetti	Bioinformatics Computer networks Engineering - Data processing Biomedical engineering Computational and Systems Biology Computer Communication Networks Data Engineering Biomedical Engineering and Bioengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Biosensors and Data Acquisition. -- Methods for Wearable Electrocardiogram and Photoplethysmogram Synchronization. -- Optimization of the Tau Parameter in Phase Space Plots for ECG Signal Quality Assessment. -- Use of the graphic tablet for monitoring and analysis of the spatial and temporal characteristics of a precise manual task. -- Emerging Trends and Innovations in E-Health. -- Vision Language Models for Dynamic Human Activity Recognition in Healthcare Settings. -- Method for detection and analysis of the sit-to-walk transition in older adults. Threshold-based transition detection application: a case study. -- Agent-Based Modeling of Retinal Development. -- High Performance in Bioinformatics. -- Benchmarking variant calling algorithms for the analysis of genomic data in panel sequencing. -- VCFX: A Minimalist, Modular Toolkit for

Streamlined Variant Analysis. -- Machine Learning-Based Screening Tool for Lung Adenocarcinoma Via Gut Microbiome. -- Cost-Effective Microbiome Profiling: Abridged Shotgun Sequencing. -- Correlation between CYP1A2 Genetic Polymorphism and Drug ResponseI. -- A Systematic Comparison of Phylogenetic Inference Methods Using an Inverse Problem Approach. -- Innovations in Cancer Research: The Role of Bioinformatics and Biomedical Engineering. -- Differential Flux-balance Analysis infers metabolic mutations associated with cancer. -- Explainable AI for Clinical Decision-Making: Unlocking the Potential of MSI Thresholds in Bladder Cancer. -- IGHV Mutational Status and DNA Entropy: Refining Prognostic Tools in Chronic Lymphocytic Leukemia. -- Machine learning in Bioinformatics and Biomedicine. -- Machine Learning Models for Assessing Depression in Syrian Adolescent Refugees in Jordan. -- Predicting T cell receptor specificity with graph attention networks. -- CyberKnife and Data Mining: Exploring opportunities for clinical advancements. -- Sickle cell disease patient care system using artificial intelligence. -- Automated Annotation of Electronic Health Records Using Large Language Models. -- A supervised learning strategy to investigate age effect on brain activity and support biomarkers detection for neurological disorders. -- Recent Advances in Bioinformatics. -- NucleoConvert Analytics: An Integrated Platform for DNA-to-RNA Conversion and Sequence Analysis. -- Computational Analysis and Prediction of CYP1A2-Related Toxicants for Safer Drug Discovery. -- Gene Co-Expression Network analysis based on GPUs for biomarkers discovery in sarcomas. -- An Algorithm For Local Pairwise Alignment Of DNA Sequences. -- Metabolomic Predictions via SOM: A Cold-Stress Case Study in Arabidopsis thaliana.

Sommario/riassunto

This two-volume set LNBI 16050-16051 constitutes the proceedings of the 12th International Conference on Bioinformatics and Biomedical Engineering, IWBBIO 2025, held in Canaria, Spain, during July 16–18, 2025. The 57 full papers presented in these volumes were carefully reviewed and selected from 98 submissions. They were organized into the following topical sections: Part I: Advances in Deep Learning in Bioinformatics and Bioengineering; Bioinformatics and Biomedical Applications; Biomarker Identification; Biomedical Computing; and Biomedical Engineering. Part II: Biosensors and Data Acquisition; Emerging Trends and Innovations in E-Health; High Performance in Bioinformatics; Innovations in Cancer Research: The Role of Bioinformatics and Biomedical Engineering; Machine Learning in Bioinformatics and Biomedicine; and Recent Advances in Bioinformatics.