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Delegation? Enhancing an MRI Study through Generative AI. -- Bioinformatics and Biomedical Applications. -- Fish telemetry as a stationary process. -- Fish acoustic telemetry as a diffusion system. -- Statistical Inference and Temporal Logics on Pathway Models using Interval Discrete-Time Markov Chain. -- A partial correlation network from summary data can identify causally related diseases. -- Effects of Tobacco Smoking on Composite Indices of Femoral Neck Strength in Young Lebanese Men. -- Activity recognition and assistance for the autonomy of elderly people in smart homes: an approach based on artificial intelligence. -- Biomarker Identification. -- ScRNA-seq Protocols Detection of Gene Expression May Decline After a While from Onset. -- Machine Learning-Based Diagnosis and Staging of Liver Cancer Using RNA-Seq Data. -- RNA-seq Analysis of Brain Cancer: Astrocytoma, Oligodendroglioma, and Mixed Glioma. -- Biomedical Computing. -- Balancing Accuracy and Energy Efficiency in EEG Classification: An Evaluation of Wrapper-based Approaches. -- Validation of measurements-based peak height velocity and maturity offset predictions in young soccer players. -- Towards Development of Natural Language Processing Model to Support Infertility Treatment Planning in Poland. -- PMP-LLM: A Culture-Aware and AI based Personalized Meal Planner Tool for Weight Management. -- Regulating Toxic Amyloid-Beta Oligomers in Alzheimer's Disease: A Control Theory Approach. -- Six-minute walk test performance correlates with trabecular bone score in a group of older sarcopenic women. -- Maximal strength is a strong determinant of hip geometry indices in a group of older sarcopenic men. -- A 3D Model-Based Standardized Procedure for Evaluating Condylar Displacement in Mandibular Reconstruction. -- Biomedical Engineering. -- Detection of Recurrence in Head and Neck Carcinoma Through Body Composition Changes Using PET/CT, MRI, and CT. -- Real-Time Milk Oxytocin Cost-Effective Assessment Kit on the Principle of Paper-Microfluidics Technology. -- Assessment of chemical scaffolds that inhibit mushroom tyrosinase to treat melanogenesis through computational approaches. -- Computational Insights into the Role of Let-7a microRNAs in Ewing's Sarcoma. -- A Distributed Web System for Patient Monitoring Integrating CRM for Improved Clinical Management.

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.