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| Nota di contenuto | 1-Digging for Significant Genes in Microarray Expression Data Based on Systematic Sampling and Hierarchal Clustering Algorithm -- 2-A DSS for predicting Lymphoma in primary Sjogren's Syndrome patients -- 3-Decision Support System for Breast Cancer Detection Using Biomarker Indicators -- 4-Hepatocellular Carcinoma Detection Using Machine Learning Techniques -- 5-Web-based Decision Support System for Coronary Heart Disease Diagnosis -- 6-A Decision Support System for the Prediction of Drug Predisposition through Personality Traits -- 7-Development of a diagnostic tool for balance disorders based on machine learning techniques -- 8-Systems Approaches in the Common Metabolomics in Acute Lymphoblastic Leukemia and Rhabdomyosarcoma Cells: A Computational Approach -- 9-Bioinformatics Analyses of Spatial Peripheral Circadian Clock-Mediated Gene Expression of lucocorticoid Receptor-related Genes -- 10- |

Machine Learning for Autistic Spectrum Disorder Risk Screening -- 11-Mobile Application for Monitoring and Preventing Cognitive Decline through Lifestyle Intervention -- 12-Virtual Reality Zoo Therapy for Alzheimer's Disease Using Real-time Gesture Recognition -- 13-Validation of the Greek Version of Social Media Disorder Scale -- 14-Adiponectin and its Effects on Acute Leukemia Cells: An Experimental and Bioinformatics Approach -- 15-Nature and quantum inspired procedures - a short literature review -- 16-Handling the cellular complex systems in Alzheimer's disease through a graph mining approach -- 17-Debunking the neuromyth of learning style -- 18-Expert characteristics: implications for expert systems -- 19-Improving the Run-Time of Space E cient n-gram Data Structures using Apache Spark -- 20-Development of a protein biochip platform for Parkinson's disease -- 21-The Cultural adaptation of the iSupportDementia in Greece -- 22-The use of data collection and big data analysis in Neurodegenerative disease prevention -- 23-Fractal Dynamics in the RR Interval of Craniopharyngioma and Adrenal Tumor in Adolescence -- 24-Bioinformatics approaches for Parkinson's disease in clinical practice: Data- driven biomarkers and pharmacological treatment -- 25-Emerging Machine Learning techniques for modelling cellular complex systems in Alzheimer's disease -- 26-Cognitive Enhancement Through Mathematical Problem Solving -- 27-Cognitive tasks of an information system for memory training and cognitive enhancement using mobile devices -- 28-An application for exploring visual perception. A pilot neuroeducational study -- 29-Genes Classification Based on Multi Class SVMs with Systematic Sampling and Hierarchical Clustering (SSHC) Algorithm -- 30-Multinetwork motor learning as a model for dance in neurorehabilitation -- 31-Controlling the chimera form in the Leaky Integrate-and-Fire model -- 32-Qualitative differences between the Semi-separable and the "Almansi type" Stokes stream function expansions in the study of biological fluids -- 33-A multiscale mathematical model for tumor growth, incorporating theGLUT1 expression.

Sommario/riassunto

The 4th World Congress on Genetics, Geriatrics and Neurodegenerative Diseases Research (GeNeDis 2020) focuses on the latest major challenges in scientific research, new drug targets, the development of novel biomarkers, new imaging techniques, novel protocols for early diagnosis of neurodegenerative diseases, and several other scientific advances, with the aim of better, safer, and healthier aging. Computational methodologies for implementation on the discovery of biomarkers for neurodegenerative diseases are extensively discussed. This volume focuses on the sessions from the conference regarding computational biology and bioinformatics.