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Collana	Lecture Notes in Bioinformatics ; ; 11466
Disciplina	572.80285
Soggetti	Bioinformatics Machine learning Natural language processing (Computer science) Optical data processing Computers Mathematical logic Computational Biology/Bioinformatics Machine Learning Natural Language Processing (NLP) Image Processing and Computer Vision Information Systems and Communication Service Mathematical Logic and Formal Languages
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Bioinformatics for healthcare and diseases -- Developing a DEVS-JAVA model to simulate and pre-test changes to emergency care delivery in a safe and efficient manner -- Concept Bag: A New Method for Computing Concept Similarity in Biomedical Data -- A reliable method to remove batch effects maintaining group differences in lymphoma methylation case study -- Predict breast tumor response to chemotherapy using a 3D deep learning architecture applied to DCE-MRI data -- Data Fusion for Improving Sleep Apnoea Detection from

Single-lead ECG Derived Respiration -- Instrumented shoes for 3D GRF analysis and characterization of human gait -- Novel Four Stages Classification of Breast Cancer Using Infrared Thermal Imaging and a Deep Learning Model -- Comparison of numerical and laboratory experiment examining deformation of red blood cell -- Levenberg-Marquardt variants in chrominance-based skin tissue detection -- A mini-review of Biomedical Infrared Thermography (B-IRT) -- Mathematical Modeling and Docking of Medicinal Plants and Synthetic drugs to determine their effects on Abnormal Expression of Cholinesterase and Acetyl Cholinesterase Proteins in Alzheimer -- Definition of Organic Processes via Digital Monitoring Systems -- Detection of Pools of Bacteria with Public Health Importance in Wastewater Effluent from a Municipality in South Africa using Next Generation Sequencing and Metagenomics Analysis -- Computational genomics/proteomics -- Web-based application for accurately classifying cancer type from microarray gene expression data using a support vector machine (SVM) learning algorithm -- Associating Protein Domains with Biological Functions: A Tripartite Network Approach -- Interaction of ZIKV NS5 and STAT2 explored by Molecular Modeling, Docking, and Simulations Studies -- Entropy-based detection of genetic markers for bacteria genotyping -- Clustering of Klebsiella Strains Based on Variability in Sequencing Data -- Addition of pathway-based information to improve predictions in transcriptomics -- Common Gene Regulatory Network for Anxiety Disorder using Cytoscape: Detection and Analysis -- Insight about nonlinear dimensionality reduction methods applied to protein molecular dynamics -- Computational systems for modelling biological processes -- HIV Drug Resistance Prediction with Categorical Kernel Functions -- Deciphering general characteristics of residues constituting allosteric communication paths -- Feature (Gene) Selection in Linear Homogeneous Cuts -- DNA Sequence Alignment Method Based on Trilateration -- Convolutional Neural Networks for Red Blood Cell Trajectory Prediction in Simulation of Blood Flow -- Platform for Adaptive Knowledge Discovery and Decision Making Based on Big Genomics Data Analytics -- Simulation Approaches to Stretching of Red Blood Cells -- Describing sequential association patterns from longitudinal microarray data sets in humans -- Biomedical Engineering -- Low resolution electroencephalographic-signals-driven semantic retrieval: Preliminary results -- A simpler command of motor using BCI -- A Biomechanical Model Implementation for Upper-Limbs Rehabilitation Monitoring Using IMUs -- Non-generalized analysis of the multimodal signals for emotion recognition: preliminary results -- Variables in a Group of Young Overweight Men -- Brain Hematoma Segmentation Using Active Learning and an Active Contour Model -- DYNLO: Enhancing Non-Linear Regularized State Observer Brain Mapping Technique by Parameter Estimation with Extended -- Analysis of the behavior of the red blood cell model in a tapered microchannel -- Radiofrequency Ablation for Treating Chronic Pain of Bones: Effects of Nerve Locations -- Biomedical image analysis -- Visualization and Cognitive Graphics in Medical Scientific Research -- Detection of static objects in an image based on texture analysis -- Artefacts Recognition and Elimination in Video Sequences with Ciliary Respiratory Epithelium -- Cross Modality Microscopy Segmentation via Adversarial Adaptation -- Assessment of pain-induced changes in cerebral microcirculation by imaging photoplethysmography -- Detection of Subclinical Keratoconus Using Biometric Parameters -- A Computer Based Blastomere Identification and Evaluation Method for Day 2 Embryos during IVF/ICSI Treatments -- Detection of breast cancer using infrared

thermography and deep neural networks -- Development of an ECG Smart Jersey based on Next Generation Computing for Automated Detection of Heart Defects among Athletes -- Biomedicine and e-Health -- Analysis of finger thermoregulation by using signal processing techniques -- Development of smart-technology for prediction drug properties based on modified algorithms of artificial immune systems and ontological models -- Comparative study of Feature Selection methods for Medical Full Text Classification -- Estimation of Lung Properties Using ANN-Based Inverse Modeling of Spirometric Data -- Model of the mouth pressure signal during pauses in total liquid ventilation.

Sommario/riassunto

The two-volume set LNBI 11465 and LNBI 11466 constitutes the proceedings of the 7th International Work-Conference on Bioinformatics and Biomedical Engineering, IWBBIO 2019, held in Granada, Spain, in May 2019. The total of 97 papers presented in the proceedings, was carefully reviewed and selected from 301 submissions. The papers are organized in topical sections as follows: Part I: High-throughput genomics: bioinformatics tools and medical applications; omics data acquisition, processing, and analysis; bioinformatics approaches for analyzing cancer sequencing data; next generation sequencing and sequence analysis; structural bioinformatics and function; telemedicine for smart homes and remote monitoring; clustering and analysis of biological sequences with optimization algorithms; and computational approaches for drug repurposing and personalized medicine. Part II: Bioinformatics for healthcare and diseases; computational genomics/proteomics; computational systems for modelling biological processes; biomedical engineering; biomedical image analysis; and biomedicine and e-health. .
