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Nota di contenuto	Bioinformatics: Functional Genomics -- HLA and HIV Infection Progression: Application of the Minimum Description Length Principle to Statistical Genetics -- Visualization of Functional Aspects of microRNA Regulatory Networks Using the Gene Ontology -- A Novel Method for Classifying Subfamilies and Sub-subfamilies of G-Protein Coupled Receptors -- Integration Analysis of Diverse Genomic Data Using Multi-clustering Results -- Bioinformatics: Sequence and Structure Analysis -- Effectivity of Internal Validation Techniques for

Gene Clustering -- Intrinsic Splicing Profile of Human Genes Undergoing Simple Cassette Exon Events -- Generalization Rules for Binarized Descriptors -- Application of Combining Classifiers Using Dynamic Weights to the Protein Secondary Structure Prediction – Comparative Analysis of Fusion Methods -- A Novel Data Mining Approach for the Accurate Prediction of Translation Initiation Sites -- SPSO: Synthetic Protein Sequence Oversampling for Imbalanced Protein Data and Remote Homology Detection -- Biomedical Models -- Markov Modeling of Conformational Kinetics of Cardiac Ion Channel Proteins -- Insulin Sensitivity and Plasma Glucose Appearance Profile by Oral Minimal Model in Normotensive and Normoglycemic Humans -- Dynamic Model of Amino Acid and Carbohydrate Metabolism in Primary Human Liver Cells -- The Probabilities Mixture Model for Clustering Flow-Cytometric Data: An Application to Gating Lymphocytes in Peripheral Blood -- Integrative Mathematical Modeling for Analysis of Microcirculatory Function -- Searching and Visualizing Brain Networks in Schizophrenia -- Databases and Grids -- TRENCADIS – A Grid Architecture for Creating Virtual Repositories of DICOM Objects in an OGSA-Based Ontological Framework -- Minimizing Data Size for Efficient Data Reuse in Grid-Enabled Medical Applications -- Thinking Precedes Action: Using Software Engineering for the Development of a Terminology Database to Improve Access to Biomedical Documentation -- Grid-Based Knowledge Discovery in Clinico-Genomic Data -- A Prospective Study on the Integration of Microarray Data in HIS/EPR -- Web Services Interface to Run Protein Sequence Tools on Grid, Testcase of Protein Sequence Alignment -- Semantics and Information Modelling -- Integrating Clinical and Genomic Information Through the PrognoChip Mediator -- OntoDataClean: Ontology-Based Integration and Preprocessing of Distributed Data -- Language Modelling for the Needs of OCR of Medical Texts -- Biomedical Signal Processing – Time Series Analysis -- The Use of Multivariate Autoregressive Modelling for Analyzing Dynamical Physiological Responses of Individual Critically Ill Patients -- Time Series Feature Evaluation in Discriminating Preictal EEG States -- Symbol Extraction Method and Symbolic Distance for Analysing Medical Time Series -- A Wavelet Tool to Discriminate Imagery Versus Actual Finger Movements Towards a Brain–Computer Interface -- Biomedical Image Analysis and Visualisation Techniques -- A Fully Bayesian Two-Stage Model for Detecting Brain Activity in fMRI -- A Novel Algorithm for Segmentation of Lung Images -- An Evaluation of Image Compression Algorithms for Colour Retinal Images -- An Automated Model for Rapid and Reliable Segmentation of Intravascular Ultrasound Images -- Biomedical Data Analysis and Interpretation -- Supervised Neuro-fuzzy Clustering for Life Science Applications -- Study on Preprocessing and Classifying Mass Spectral Raw Data Concerning Human Normal and Disease Cases -- Non-repetitive DNA Sequence Compression Using Memoization -- Application of Rough Sets Theory to the Sequential Diagnosis -- Data Integration in Multi-dimensional Data Sets: Informational Asymmetry in the Valid Correlation of Subdivided Samples -- Decision Support Systems and Diagnostic Tools -- Two-Stage Classifier for Diagnosis of Hypertension Type -- Handwriting Analysis for Diagnosis and Prognosis of Parkinson’s Disease -- A Decision Support System for the Automatic Assessment of Hip Osteoarthritis Severity by Hip Joint Space Contour Spectral Analysis -- Modeling for Missing Tissue Compensator Fabrication Using RFID Tag in U-Health -- The Effect of User Factors on Consumer Familiarity with Health Terms: Using Gender as a Proxy for Background Knowledge About Gender-Specific Illnesses -- ICT for Patient Safety: Towards a European Research Roadmap.