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This book constitutes the refereed proceedings of the 7th International Symposium on Biological and Medical Data Analysis, ISBMDA 2006, held in Thessaloniki, Greece, in December 2006. The 28 revised full papers and 16 revised poster papers presented were carefully reviewed and selected from 91 submissions. The papers are organized in topical sections on functional genomics, sequence and structure analysis, biomedical models, databases and grids, semantics and information modelling, biomedical signal processing - time series analysis, biomedical image analysis and visualisation techniques, biomedical data analysis and interpretation, as well as decision support systems and diagnostic tools.

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   ResultsBioinformatics: 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 DetectionBiomedical 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 SchizophreniaDatabases 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……Sematics and Information ModellingBiomedical Signal Processing-Time Series AnalysisBiomedical Image Analysis and Visualistaion TechniquesBionmedical Data Analysis and InterpretationDecision Support Systems and Diagnostic ToolsAuthor Index

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