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Nota di contenuto	Intro -- Preface -- Part I: Health Data Analysis and Applications to EHR Data (Chaps. 1 -5) -- Part II: Clinical Trials, FDR, and Applications in Health Science (Chaps. 6 -10) -- Part III: Big Data Analytics and Its Applications (Chaps. 11 -15) -- Part IV: Survival Analysis and Functional Data Analysis (Chaps. 16 -18) -- Part V: Statistical Modeling in Genomic Studies (Chaps. 19 -21) -- Contents -- About the Editors -- -- -- List of Contributors -- -- List of Chapter Reviewers -- Part I Health Data Analysis and Applications to EHR Data -- The Effective Sample Size of EHR-Derived Cohorts Under Biased Sampling -- 1 Introduction -- 2 Methods -- 2.1 Notation and Definitions -- 2.2 Bias and Mean-Squared Error of the Simple Random Sample and the EHR-Based Sample -- 2.3 Effective Sample Size of the EHR-Derived Cohort -- 2.4 Simulation Study Design -- 3 Results -- 4 Discussion -- References -- Non-Gaussian Models for Object Motion Analysis with Time-Lapse Fluorescence Microscopy Images -- 1 Introduction -- 2 Method -- 2.1 Particle Tracking Framework -- 2.2 Object Segmentation -- 2.3 Observation and Dynamics Models -- Ellipsoid Model -- Voxel-

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