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Titolo	Machine Learning in Medical Imaging : 16th International Workshop, MLMI 2025, Held in Conjunction with MICCAI 2025, Daejeon, South Korea, September 23, 2025, Proceedings // edited by Zhiming Cui, Islem Rekik, Heung-IL Suk, Xi Ouyang, Kaicong Sun, Sheng Wang
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Altri autori (Persone)	RekikIslem SukHeung-Il OuyangXi SunKaicong WangSheng
Disciplina	006.37
Soggetti	Computer vision Pattern recognition systems Machine learning Computer engineering Computer networks Social sciences - Data processing Bioinformatics Computer Vision Automated Pattern Recognition Machine Learning Computer Engineering and Networks Computer Application in Social and Behavioral Sciences Computational and Systems Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- LGE-Guided Cross-Modality Contrastive Learning for Gadolinium-Free Cardiomyopathy Screening in Cine CMR. -- Facial Model Assisted

Shape Prediction for Orthognathic Surgery. -- Joint Motion Correction of Multi-Atlas Functional Connectivity during Infancy. -- 3D-ReVert: 3D Reconstruction of Vertebrae from a Single Radiograph for Minimally Invasive Spine Surgery. -- ViViT: Variable-Input Vision Transformer Framework for 3D MR Image Segmentation. -- gResDM: A Graph-driven Residual Diffusion Model for Accelerating DWI Data Acquisition. -- Semi-Supervised 3D Medical Segmentation from 2D Natural Images Pretrained Model. -- Regional Hausdorff Distance Losses for Medical Image Segmentation. -- Identification of functional brain dynamics based on structural connectivity constrained functional time series. -- MR-CLIP: Efficient Metadata-Guided Learning of MRI Contrast Representations. -- Lightweight Hypercomplex MRI Reconstruction: A Generalized Kronecker-Parameterized Approach. -- Leveraging self-supervised pretraining using transformers for enhanced lung nodule detection in CT scans. -- From Action to Anatomy - Countering Data Scarcity with Video-Based Training for Ill-Posed MRI Problems. -- Auditing Significance, Metric Choice, and Demographic Fairness in Medical AI Challenges. -- Synthesis of Abdominal Contrast-Enhanced CT using Diffusion-based Spatial Transform Control. -- AMD-Mamba: A Phenotype-Aware Multi-Modal Framework for Robust AMD Prognosis. -- DEnPL: Improved Classification in Imbalanced Medical Datasets via Data-Engineered Prototypical Metric Loss. -- A Detail-preserving Latent Diffusion Model for Arbitrarily Accelerated MR Imaging. -- TransGATNet: Hybrid Temporal-Frequency Features with Graph-Attention Transformers for Sleep Staging in OSA Patients. -- U-DFA: A Unified DINOv2-Unet with Dual Fusion Attention for Multi-Dataset Medical Segmentation. -- UniDis: Universal Distillation for Efficient and Personalized Pathology Diagnosis. -- End-to-end Cortical Surface Reconstruction from Clinical Magnetic Resonance Images. -- Brain Network Mamba: A Bi-directional State-Space Model for Brain Network Analysis on rs-fMRI. -- Emerging Semantic Segmentation from Positive and Negative Coarse Label Learning. -- ClinicalFMamba: Advancing Clinical Assessment using Mamba-based Multimodal Neuroimaging Fusion. -- TissueAgeNet: Quantitative Textual Guidance for Tissue Level Brain Age Estimation. -- Surface-Guided Construction of 4D Volumetric Atlases of Fetal Brains. -- Radiogenomic Bipartite Graph Representation Learning for Alzheimer's Disease Detection. -- Feature Imputation for Missing Modalities in Multimodal Ultrasound. -- CCMorph: Conditional Contrastive Learning for Unsupervised Medical Image Registration. -- CAC-MAE: A Calcification-aware Masked Autoencoder for Cardiovascular Disease Risk Assessment on Low-Dose CT. -- HiT-ULM: Hierarchical Temporal Dynamics Learning for Efficient Clinical Ultrasound Localization Microscopy. -- Policy to Assist Iteratively Local Segmentation: Optimising Modality and Location Selection for Prostate Cancer Localisation. -- Domain Adaptation for Ulcerative Colitis Severity Estimation Using Patient-Level Diagnoses. -- AREPAS: Anomaly Detection in Fine-Grained Anatomy with Reconstruction based Semantic Patch Scoring. -- Beyond Pixels: Medical Image Quality Assessment with Implicit Neural Representations. -- Medical Referring Image Segmentation: Addressing Multi-Lesion Reference and Annotation Uncertainty via Vision-Language Fusion. -- Towards Generalizable Clinical Knowledge Discovery for Radiology Report Generation. -- Weighted Mean Frequencies: a handcraft Fourier feature for 4D Flow MRI segmentation. -- ConneCToMind: Connectome-Aware fMRI Decoding for Visual Image Reconstruction. -- Segmentation of glioblastoma infiltration using hybrid labels from MRI and [18F]FET PET. -- Patch-level attribution of multimodal fracture risk prediction. -- Scheduled Cross-Domain

Multi-Center DINO for Robust High-Content Screening Representation Learning. -- Temporal Periodic Image Registration with Implicit Neural Representations. -- Diagnosis of Blood Diseases and Disorders with Topological Deep Learning. -- Temporal Super-Resolution of Medical Images with Implicit Neural Representations. -- GyratNet Sub-network Partitioning via Differentiable Spectral Modularity Optimization. -- GRASping Anatomy to Improve Pathology Segmentation. -- Preserving Diagnostic Details in Low-Dose CT with Frequency-Domain Guided Deep Learning. -- Evaluating structural uncertainty in accelerated MRI: are voxelwise measures useful surrogates?. -- SwinDDF: Dense Dynamic Fusion Network for 3D Segmentation of Complex-Shaped Nuclei. -- Improving Visual Search in Medical Videos with Self-Supervised Learning and Temporal Feature Integration. -- Ontology-Based Concept Distillation for Radiology Report Retrieval and Labeling. -- Automated Dental Caries Segmentation in Panoramic Radiographs Using Dual-Stage Deep Learning. -- Anatomy-Guided Semi-Supervised Registration with Combined Rigid and Label Supervision for Improved Rib Deformation Consistency. -- MultiMAE for Brain MRIs: Robustness to Missing Inputs Using Multi-Modal Masked Autoencoder. -- Attention Pooling Enhances NCA-based Classification of Microscopy Images. -- Predicting Cognitive Outcomes by Mapping White Matter Tracts to Surface. -- Bridging Brain Connectomes and Clinical Reports for Early Alzheimer's Disease Diagnosis. -- Image-Guided Liver Tumor Synthesis. -- Relation-Preserving Harmonization of Functional Connectivity Representation: Ensuring Local Functional, Longitudinal, and Population-Level Consistency. -- nnU-BNST: Deep Learning-Based Automated Segmentation of the Bed Nucleus of the Stria Terminalis. -- AGFuse-Net: Enhancing Rapid SPECT/CT Imaging via Anatomy-Guided Attention Gates and Multimodality Fusion Network. -- GMPT: General Multimodal Segmentation Model Guided by Multi-Expert Pathway. -- Diff4MMLiTS: Advanced Multimodal Liver Tumor Segmentation via Diffusion-Based Image Synthesis and Alignment.

Sommario/riassunto

This book constitutes the refereed proceedings of the 16th International Workshop on Machine Learning in Medical Imaging, MLMI 2025, held in Conjunction with MICCAI 2025, Daejeon, South Korea, on September 23, 2025. The 65 full papers included in this book were carefully reviewed and selected from 101 submissions. They focus on advanced scientific research covering topics such as deep learning, foundation models, generative learning, and statistical methods with their applications to computer-aided diagnosis, multi-modality fusion, image reconstruction, digital pathology, and large-scale data analytics.

2. Record Nr.	UNINA9911088241403321
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ISBN	9781040074237 1040074235 9780429173066 0429173067 9781482212198 1482212196
Edizione	[1st ed.]
Descrizione fisica	1 online resource (574 p.)
Disciplina	610.72/7
Soggetti	Medicine - Research - Statistical methods Clinical trials - Methodology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	A Chapman and Hall book.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Contents; List of Figures; List of Tables; Preface; Early History of the DemingConference; Some Nonstatistical Reminiscences of My 44 Years of Chairing the Deming Conference; Contributors; Section I: Emerging Issues in ClinicalTrial Design and Analysis; Chapter 1: Emerging Challenges of Clinical Trial Methodologies in Regulatory Applications; Chapter 2: Review of Randomization Methodsin Clinical Trials; Chapter 3: First Dose Ranging Clinical Trial Design:More Doses? Or aWider Range?; Chapter 4: Thorough QT/QTc Clinical Trials Chapter 5: Controversial (Unresolved) Issues in Noninferiority TrialsSection II: Adaptive Clinical Trials; Chapter 6: Adaptive Designs in Drug Development; Chapter 7: Optimizing Group-Sequential Designs with Focus on Adaptability: Implications of Nonproportional Hazards in Clinical Trials; Chapter 8: Group Sequential Design in R; Section III: Clinical Trials in Oncology; Chapter 9: Issues in the Design and Analysis of Oncology Clinical Trials; Chapter 10: Competing Risks and Their Applications in Cancer Clinical Trials

Chapter 11: Dose Finding with Escalation with Overdose Control in Cancer Clinical Trials; Chapter 12: Interval-Censored Time-to-Event Data and Their Applications in Clinical Trials; Section IV: Multiple Comparisons in Clinical Trials; Chapter 13: Introduction to Multiple Test Problems, with Applications to Adaptive Designs; Chapter 14: Graphical Approaches to Multiple Testing; Chapter 15: Pairwise Comparisons with Binary Responses: Multiplicity-Adjusted P-Values and Simultaneous Confidence Intervals; Chapter 16: Comparative Study of Five Weighted Parametric Multiple Testing Methods for Correlated Multiple Endpoints in Clinical Trials; Section V: Clinical Trials in a Genomic Era; Chapter 17: Statistical Analysis of Biomarkers from -Omics Technologies; Chapter 18: Understanding Therapeutic Pathways via Biomarkers and Other Uses of Biomarkers in Clinical Studies; Chapter 19: Statistical Evaluation of Surrogate Endpoints in Clinical Studies; Back Cover

Sommario/riassunto

Since 1945, The Annual Deming Conference on Applied Statistics has been an important event in the statistics profession. In *Clinical Trial Biostatistics and Biopharmaceutical Applications*, prominent speakers from past Deming conferences present novel biostatistical methodologies in clinical trials as well as up-to-date biostatistical applications from the pharmaceutical industry. Divided into five sections, the book begins with emerging issues in clinical trial design and analysis, including the roles of modeling and simulation, the pros and cons of randomization procedures, the design of Phase II dose-ranging trials, thorough QT/QTc clinical trials, and assay sensitivity and the constancy assumption in noninferiority trials. The second section examines adaptive designs in drug development, discusses the consequences of group-sequential and adaptive designs, and illustrates group sequential design in R. The third section focuses on oncology clinical trials, covering competing risks, escalation with overdose control (EWOC) dose finding, and interval-censored time-to-event data. In the fourth section, the book describes multiple test problems with applications to adaptive designs, graphical approaches to multiple testing, the estimation of simultaneous confidence intervals for multiple comparisons, and weighted parametric multiple testing methods. The final section discusses the statistical analysis of biomarkers from omics technologies, biomarker strategies applicable to clinical development, and the statistical evaluation of surrogate endpoints. This book clarifies important issues when designing and analyzing clinical trials, including several misunderstood and unresolved challenges. It will help readers choose the right method for their biostatistical application. Each chapter is self-contained with references--Provided by publisher.
