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Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 15249
Disciplina	006.6
Soggetti	Image processing - Digital techniques Computer vision Machine learning Education - Data processing Social sciences - Data processing Bioinformatics Computer Imaging, Vision, Pattern Recognition and Graphics Machine Learning Computers and Education Computer Application in Social and Behavioral Sciences Computational and Systems Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Architectures -- multiGradICON A Foundation Model for Multimodal Medical Image Registration -- XSynthMorph Generative Guided Deformation for Unsupervised Ill Posed Volumetric Recovery -- Large Deformation Registration with A Confidence guided Network -- Unleashing Registration Diffusion Models for Synthetic Paired 3D Training Data -- Feedback Attention for Unsupervised Cardiac Motion Estimation in 3D Echocardiography -- Learning Intra Patient Liver Registration with Graph Cross Attention -- Mamba Catch The Hype Or Rethink What Really Helps for Image Registration -- Robustness -- Assessing the Robustness of Image Registration Models Under Domain

Shifts with Learnable Input Images -- Challenging the Robustness of Image Registration Similarity Metrics with Adversarial Attacks -- Comparative Study on Co Registration Techniques for Diffusion Weighted Breast MRI and Improved ADC Mapping -- A Learning Free Approach to Mitigate Abnormal Deformations in Medical Image Registration -- Deformable MRI Sequence Registration for AI based Prostate Cancer Diagnosis -- Atlas Fusion -- SINA Sharp Implicit Neural Atlases by Joint Optimisation of Representation and Deformation -- A Novel Fusion of CT MRI and US Images Based on Depth Camera and Electromagnetic Tracking -- Deep Learning Multi Channel Structural and Diffusion Tensor Neonatal Image Registration -- Registration by Regression RbR a Framework for Interpretable and Flexible Atlas Registration -- Diffusion Model Based Hierarchical Registration Framework for Whole Body Image -- Feature Similarity Learning -- Unsupervised Similarity Learning for Image Registration with Energy Based Models -- Segmentation by registration enabled SAM prompt engineering using five reference images -- Electron Microscopy Image Registration with Twin Axial Transformer and Progressive Training -- General Vision Encoder Features as Guidance in Medical Image Registration -- Rigid Single Slice in Volume registration via rotation equivariant 2D 3D feature matching -- A Self Supervised Image Registration Approach for Measuring Local Response Patterns in Metastatic Ovarian Cancer -- CAR Contrast Agnostic Deformable Medical Image Registration with Contrast Invariant Latent Regularization -- Efficiency -- High Performance Groupwise Cortical Surface Registration with Multimodal Surface Matching -- Optimising Region of Interest Registration for Multiple Tissue Whole Slide Images -- Automatic Registration of SHG and H E Images with Feature based Initial Alignment and Intensity based Instance Optimization Contribution to the COMULIS Challenge -- Towards Fast and Accurate Non rigid Liver Fusion.

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### Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Workshop on Biomedical Image Registration, WBIR 2024, held in conjunction with the 27th International conference on Medical Image Computing and Computer Assisted Intervention, MICCAI 2024, in Marrakesh, Morocco in October 2024. The 28 full papers presented in this book were carefully reviewed and selected from 32 submissions. These papers have been categorized under the following topical sections: Architectures; Robustness; Atlas/ Fusion; Feature/ Similarity Learning & Efficiency.

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