

1. Record Nr.	UNINA9910983045003321
Titolo	Perinatal, Preterm and Paediatric Image Analysis : 9th International Workshop, PIPPI 2024, Held in Conjunction with MICCAI 2024, Marrakesh, Morocco, October 6, 2024, Proceedings // edited by Daphna Link-Sourani, Esra Abaci Turk, Christopher Macgowan, Jana Hutter, Andrew Melbourne, Roxane Licandro
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-73260-X
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (172 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 14747
Disciplina	618.9200754
Soggetti	Image processing - Digital techniques Computer vision Artificial intelligence Application software Computer Imaging, Vision, Pattern Recognition and Graphics Artificial Intelligence Computer and Information Systems Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fetal MRI: Motion Correction and Quality Assessment: SpaER: Learning Spatio-temporal Equivariant Representations for Fetal Brain Motion Tracking -- Joint Multi-Contrast Reconstruction of Fetal MRI based on Implicit Neural Representations -- Automatic disentanglement of motion in fetal low field MRI scans -- Advanced Framework for Fetal Diffusion MRI: Dynamic Distortion and Motion Correction -- Assessing data quality on fetal brain MRI reconstruction: a multi-site and multi-rater study. Neurodevelopmental MRI: Segmentation and Morphometry: Automatic 8-tissue Segmentation for 6-month Infant Brains -- Towards Accurate Fetal Brain Parcellation via Hierarchical Network and Loss -- Automatic assessment of fetal multi-echo diffusion weighted scans -- Rethinking Fetal Brain Atlas Construction: A Deep Learning Perspective -- Enhancing Prenatal Diagnosis: Automated Fetal Brain MRI Morphometry. Fetal Body and Organ Segmentation in MRI: Towards

automated multi-regional lung parcellation for 0.55-3T 3D T2w fetal MRI -- Fetal Body Parts Segmentation Using Volumetric MRI Reconstructions. Fetal Ultrasound and Segmentation: Generative Diffusion Model Bootstraps Zero-shot Classification of Fetal Ultrasound Images in Underrepresented African Populations -- Semi-supervised three-dimensional detection of congenital brain anomalies in first trimester ultrasound.

Sommario/riassunto

This book constitutes the refereed proceedings of the 9th International Workshop on Perinatal, Preterm and Paediatric Image Analysis, PIPPI 2024, held in conjunction with the 27th International Conference on Medical Imaging and Computer-Assisted Intervention, MICCAI 2024, in Marrakesh, Morocco, on October 6, 2024. The 14 full papers presented in this book were carefully reviewed and selected from 17 submissions. The methods presented in these proceedings cover the full scope of medical image analysis including segmentation, registration, classification, reconstruction, population analysis and advanced structural, and functional and longitudinal modeling, all with an application to younger cohorts.
