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Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Data Preprocessing -- Slice Estimation in Diffusion MRI of Neonatal and Fetal Brains in Image and Spherical Harmonics Domains Using Autoencoders -- 1 Introduction -- 2 Methodology -- 2.1 Materials -- 2.2 Model -- 3 Results -- 3.1 DWI Assessment -- 3.2 FA and MD in Newborns -- 3.3 Qualitative Results of FA and MD in Fetuses -- 4 Conclusion -- References -- Super-Resolution of Manifold-Valued Diffusion MRI Refined by Multi-modal Imaging -- 1 Introduction -- 2 Background and Methods -- 2.1 Background -- 2.2 Proposed Method -- 3 Experiments -- 3.1 Data -- 3.2 Implementation and Training Details -- 3.3 Models and Evaluation Metrics -- 4 Results -- 4.1 Proposed Model Performance -- 4.2 Model Ablation Results -- 5 Discussion -- References -- .28em plus .1em minus .1emLossy Compression of Multidimensional Medical Images Using Sinusoidal Activation Networks: An Evaluation Study -- 1 Introduction -- 2 Methodology -- 3 Results -- 4 Discussion and Conclusion -- References -- Correction of Susceptibility Distortion in EPI: A Semi-supervised Approach with Deep Learning -- 1 Introduction -- 2 Background -- 2.1 Distortion Model --

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