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Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Registration -- HyperMorph: Amortized Hyperparameter Learning for Image Registration -- 1 Introduction -- 2 Related Work -- 3 Methods -- 3.1 HyperMorph -- 3.2 Hyperparameter Tuning -- 3.3 Implementation -- 4 Experiments -- 4.1 Experiment 1: HyperMorph Efficiency and Capacity -- 4.2 Experiment 2: Robustness to Initialization -- 4.3 Experiment 3: Hyperparameter-Tuning Utility -- 5 Conclusion -- References -- Deep Learning Based Geometric Registration for Medical Images: How Accurate Can We Get Without Visual Features? -- 1 Introduction -- 1.1 Related Work -- 1.2 Contribution -- 2 Methods -- 2.1 Loopy Belief Propagation for Regularised Registration of Keypoint Graphs -- 2.2 Geometric Feature Extraction with Graph Convolutional Neural Networks -- 2.3 Deep Learning Based End-to-End Geometric Registration Framework -- 2.4 Implementation Details: Keypoints, Visual Features and Integral Loss -- 3 Experiments and Results -- 4 Discussion and Conclusion -- References -- Diffeomorphic Registration with Density Changes for the Analysis of Imbalanced Shapes -- 1 Introduction -- 2 Diffeomorphic Registration of Geometric Measures -- 2.1 Diffeomorphisms and Registration -- 2.2 Geometric Measure Representation of Shapes -- 3 Diffeomorphic Registration with Density Changes -- 3.1 An Augmented Optimal Control Problem -- 3.2 Numerical Implementation -- 3.3 Local Density Changes -- 4 Results

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