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Nota di contenuto	Intro -- Preface -- Organization -- Contents - Part VI -- Image Registration -- SVoRT: Iterative Transformer for Slice-to-Volume Registration in Fetal Brain MRI -- 1 Introduction -- 2 Methods -- 2.1 Transformation Update -- 2.2 Volume Estimation -- 2.3 Training -- 3 Experiments and Results -- 3.1 Experiment Setup -- 3.2 Simulated Data -- 3.3 Real Fetal MR Data -- 4 Conclusion -- References -- Double-Uncertainty Guided Spatial and Temporal Consistency Regularization Weighting for Learning-Based Abdominal Registration -- 1 Introduction -- 2 Methods -- 2.1 Mean-Teacher Based Temporal Consistency Regularization -- 2.2 Double-Uncertainty Guided Adaptive Weighting -- 3 Experiments and Results -- 4 Conclusion -- References -- Unsupervised Deformable Image Registration with Absent Correspondences in Pre-operative and Post-recurrence Brain Tumor MRI Scans -- 1 Introduction -- 2 Methods -- 2.1 Bidirectional Deformable Image Registration -- 2.2 Forward-Backward Consistency Constraint -- 2.3 Inverse Consistency -- 2.4 Objective Function -- 3 Experiments -- 4 Conclusion -- References -- On the Dataset Quality Control for Image Registration Evaluation -- 1 Introduction -- 2 Method -- 2.1 Constructing the Variogram -- 2.2 Potential FLEs -- 2.3 Atypical Variogram Patterns -- 3 Experiments -- 4 Discussion --

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Sommario/riassunto

The eight-volume set LNCS 13431, 13432, 13433, 13434, 13435, 13436, 13437, and 13438 constitutes the refereed proceedings of the 25th International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2022, which was held in Singapore in September 2022. The 574 revised full papers presented were carefully reviewed and selected from 1831 submissions in a double-blind review process. The papers are organized in the following topical sections: Part I: Brain development and atlases; DWI and tractography; functional brain networks; neuroimaging; heart and lung imaging; dermatology; Part II: Computational (integrative) pathology; computational anatomy and physiology; ophthalmology; fetal imaging; Part III: Breast imaging; colonoscopy; computer aided diagnosis; Part IV: Microscopic image analysis; positron emission tomography; ultrasound imaging; video data analysis; image segmentation I; Part V: Image segmentation II; integration of imaging with non-imaging biomarkers; Part VI: Image registration; image reconstruction; Part VII: Image-Guided interventions and surgery; outcome and disease prediction; surgical data science; surgical planning and simulation; machine learning – domain adaptation and generalization; Part VIII: Machine learning – weakly-supervised learning; machine learning – model interpretation; machine learning – uncertainty; machine learning theory and methodologies. .

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Sommario/riassunto	"This volume is an intriguing document for the new state of intercultural studies with regard to German-American history. Full of new discoveries in the realms of art collecting, poetry, women's standing, universities, social politics, and everyday life, the book illuminates the Atlantic not as the barrier but rather the bridge between the people of two nations. It sets clear parameters for the step from merely tracing cultural relations (and stereotypes) to an understanding of the transatlantic world as an ever-changing web of human interconnections. The essays complement each other in their reflection of both the ethnic traditions of the German-Americans and the intercultural encounters of the elites in the nineteenth century, raising new interest in the specifics of travels across the Atlantic and providing a new context to the much-debated facts of German emigration and American isolationism."--Frank Trommler, University of Pennsylvania "With their focus on the variety and processes of transatlantic cultural and intellectual exchange, most of the essays in the two volumes under review here do reflect a significant shift in perspective in German-American Studies, away from the filiopietistic, quaint, or contributionist

vein to serious engagement with theoretical discourses that shape the broader field of German Studies today. The editors are to be congratulated for producing volumes that may in fact help to bring German-American Studies back into the mainstream of that field." --- H-Net Book Reviews, May 2008 Nineteenth-century Germans and Americans were linked by emigration and ongoing interaction and cultural exchanges. In "Traveling between Worlds," six authors explore the German-American relationship, focusing on the topics of travel, cultural interpretation, ideological and intellectual transfer, the immigrant experience, and German-American poetry. Contributors are: Christoph Mauch, Eberhard Bruning, John T. Walker, Thomas Adam, Gabriele Lingelbach, Andrew P. Yox, and Christiane Harzig.
