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	Titolo	Spatio-temporal Image Analysis for Longitudinal and Time-Series Image Data [[electronic resource]] : Second International Workshop, STIA 2012, Held in Conjunction with MICCAI 2012, Nice, France, October 1, 2012, Proceedings / / edited by Stanley Durrleman, Tom Fletcher, Guido Gerig, Marc Niethammer
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	Edizione	[1st ed. 2012.]
	Descrizione fisica	1 online resource (X, 163 p. 73 illus.)
	Collana	Image Processing, Computer Vision, Pattern Recognition, and Graphics ; ; 7570
	Disciplina	006.6 006.37
	Soggetti	Optical data processing Pattern recognition Artificial intelligence Computer graphics Algorithms Radiology Image Processing and Computer Vision Pattern Recognition Artificial Intelligence Computer Graphics Algorithm Analysis and Problem Complexity Imaging / Radiology
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	International conference proceedings.
	Nota di bibliografia	Includes bibliographical references and author index.
	Nota di contenuto	Spatio-temporal Regularization for Longitudinal Registration to an Unbiased 3D Individual Template -- Local vs Global Descriptors of Hippocampus Shape Evolution for Alzheimer's Longitudinal Population Analysis -- Which Reorientation Framework for the Atlas-Based Comparison of Motion from Cardiac Image Sequences? -- Elastic

Demons: Characterizing Cortical Development in Neonates Using an Implicit Surface Registration -- A New Framework for Analyzing Structural Volume Changes of Longitudinal Brain MRI Data -- 4D Segmentation of Longitudinal Brain MR Images with Consistent Cortical Thickness Measurement -- Mixed-Effects Shape Models for Estimating Longitudinal Changes in Anatomy -- Unsupervised Learning of Shape Complexity: Application to Brain Development -- Spatio-temporal Analysis under Appearance Changes Spatial-temporal Pharmacokinetic Model Based Registration of 4D Brain PET Data -- Predicting the Location of Glioma Recurrence after a Resection Surgery -- Tracking Metastatic Brain Tumors in Longitudinal Scans via Joint Image Registration and Labeling -- Spatio-temporal Analysis for Biology Motion-Based Segmentation for Cardiomyocyte Characterization -- Multi-temporal Globally-Optimal Dense 3-D Cell Segmentation and Tracking from Multi-photon Time-lapse Movies of Live Tissue Microenvironments.

| Sommario/riassunto | This book constitutes the refereed proceedings of the Second International Workshop on Spatio-temporal Image Analysis for Longitudinal and Time-Series Image Data, STIA 2012, held in conjunction with MICCAI 2012 in Nice, France, in October 2012. The 13 papers presented in this volume were carefully reviewed and selected from 22 submissions. They are organized in topical sections named: longitudinal registration and transport; spatio-temporal analysis for shapes; spatio-temporal analysis under appearance changes; and spatio-temporal analysis for biology. |