

Olivier Clatz

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,522
citations

567281

15
h-index

839539

18
g-index

22
all docs

22
docs citations

22
times ranked

1481
citing authors

#	ARTICLE	IF	CITATIONS
1	Realistic simulation of the 3-D growth of brain tumors in MR images coupling diffusion with biomechanical deformation. IEEE Transactions on Medical Imaging, 2005, 24, 1334-1346.	8.9	299
2	Robust nonrigid registration to capture brain shift from intraoperative MRI. IEEE Transactions on Medical Imaging, 2005, 24, 1417-1427.	8.9	214
3	Non-rigid alignment of pre-operative MRI, fMRI, and DT-MRI with intra-operative MRI for enhanced visualization and navigation in image-guided neurosurgery. NeuroImage, 2007, 35, 609-624.	4.2	180
4	Image Guided Personalization of Reaction-Diffusion Type Tumor Growth Models Using Modified Anisotropic Eikonal Equations. IEEE Transactions on Medical Imaging, 2010, 29, 77-95.	8.9	152
5	Computational modeling of the WHO grade II glioma dynamics: principles and applications to management paradigm. Neurosurgical Review, 2008, 31, 263-269.	2.4	113
6	Extrapolating glioma invasion margin in brain magnetic resonance images: Suggesting new irradiation margins. Medical Image Analysis, 2010, 14, 111-125.	11.6	98
7	Glioma Dynamics and Computational Models: A Review of Segmentation, Registration, and In Silico Growth Algorithms and their Clinical Applications. Current Medical Imaging, 2007, 3, 262-276.	0.8	93
8	DT-REFinD: Diffusion Tensor Registration With Exact Finite-Strain Differential. IEEE Transactions on Medical Imaging, 2009, 28, 1914-1928.	8.9	84
9	Biocomputing: numerical simulation of glioblastoma growth using diffusion tensor imaging. Physics in Medicine and Biology, 2008, 53, 879-893.	3.0	59
10	A Recursive Anisotropic Fast Marching Approach to Reaction Diffusion Equation: Application to Tumor Growth Modeling. Lecture Notes in Computer Science, 2007, 20, 687-699.	1.3	42
11	Tumor growth parameters estimation and source localization from a unique time point: Application to low-grade gliomas. Computer Vision and Image Understanding, 2013, 117, 238-249.	4.7	30
12	Toward Real-Time Image Guided Neurosurgery Using Distributed and Grid Computing. , 2006, , .		28
13	Patient-Specific Biomechanical Model of the Brain: Application to Parkinson's Disease Procedure. Lecture Notes in Computer Science, 2003, , 321-331.	1.3	26
14	Biocomputing: Numerical simulation of glioblastoma growth and comparison with conventional irradiation margins. Physica Medica, 2011, 27, 103-108.	0.7	24
15	An ITK implementation of a physics-based non-rigid registration method for brain deformation in image-guided neurosurgery. Frontiers in Neuroinformatics, 2014, 8, 33.	2.5	20
16	DTI registration with exact finite-strain differential. , 2008, , .		19
17	COMPENSATION OF GEOMETRIC DISTORTION EFFECTS ON INTRAOPERATIVE MAGNETIC RESONANCE IMAGING FOR ENHANCED VISUALIZATION IN IMAGE-GUIDED NEUROSURGERY. Operative Neurosurgery, 2008, 62, 209-216.	0.8	17
18	Extrapolating Tumor Invasion Margins for Physiologically Determined Radiotherapy Regions. Lecture Notes in Computer Science, 2006, 9, 338-346.	1.3	11

#	ARTICLE	IF	CITATIONS
19	Towards an Identification of Tumor Growth Parameters from Time Series of Images. , 2007, 10, 549-556.		8
20	An ITK Implementation of Physics-based Non-rigid Registration Method. The Insight Journal, 2012, , .	0.2	3
21	Grid-Enabled Software Environment for Enhanced Dynamic Data-Driven Visualization and Navigation During Image-Guided Neurosurgery. Lecture Notes in Computer Science, 2007, , 980-987.	1.3	0