Marcel Prastawa

List of Publications by Year in Descending Order

53 papers	4,433 citations	18 h-index	55 g-index
55 ext. papers	5,509 ext. citations	3.8 avg, IF	4.54 L-index

#	Paper	IF	Citations
53	Antemortem detection of Parkinson's disease pathology in peripheral biopsies using artificial intelligence.. *Acta Neuropathologica Communications*, **2022**, 10, 21	7.3	1
52	Screening peripheral biopsies for alpha-synuclein pathology using deep machine learning. *Alzheimer's and Dementia*, **2020**, 16, e047358	1.2	
51	BACH: Grand challenge on breast cancer histology images. *Medical Image Analysis*, **2019**, 56, 122-139	15.4	176
50	Artificial intelligence in neuropathology: deep learning-based assessment of tauopathy. *Laboratory Investigation*, **2019**, 99, 1019-1029	5.9	42
49	Ensemble Network for Region Identification in Breast Histopathology Slides. *Lecture Notes in Computer Science*, **2018**, 861-868	0.9	5
48	Geodesic shape regression with multiple geometries and sparse parameters. *Medical Image Analysis*, **2017**, 39, 1-17	15.4	12
47	Comparison of compressed sensing diffusion spectrum imaging and diffusion tensor imaging in patients with intracranial masses. *Magnetic Resonance Imaging*, **2017**, 36, 24-31	3.3	8
46	Data-Driven Rank Aggregation with Application to Grand Challenges. *Lecture Notes in Computer Science*, **2017**, 754-762	0.9	1
45	Modeling 4D Pathological Changes by Leveraging Normative Models. *Computer Vision and Image Understanding*, **2016**, 151, 3-13	4.3	2
44	Automatic Tissue Segmentation of Neonate Brain MR Images with Subject-specific Atlases. *Proceedings of SPIE*, **2015**, 9413,	1.7	12
43	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). *IEEE Transactions on Medical Imaging*, **2015**, 34, 1993-2024	11.7	2132
42	Morphometry of anatomical shape complexes with dense deformations and sparse parameters. *NeuroImage*, **2014**, 101, 35-49	7.9	140
41	A JOINT FRAMEWORK FOR 4D SEGMENTATION AND ESTIMATION OF SMOOTH TEMPORAL APPEARANCE CHANGES **2014**, 2014, 1291-1294	1.5	1
40	4D ACTIVE CUT: AN INTERACTIVE TOOL FOR PATHOLOGICAL ANATOMY MODELING **2014**, 2014, 529-532	1.5	15
39	Characterizing growth patterns in longitudinal MRI using image contrast. *Proceedings of SPIE*, **2014**, 9034, 90340D	1.7	3
38	GEODESIC REGRESSION OF IMAGE AND SHAPE DATA FOR IMPROVED MODELING OF 4D TRAJECTORIES **2014**, 2014, 385-388	1.5	12
37	Subject-specific prediction using nonlinear population modeling: application to early brain maturation from DTI. *Lecture Notes in Computer Science*, **2014**, 17, 33-40	0.9	3

36	Regional characterization of longitudinal DT-MRI to study white matter maturation of the early developing brain. *NeuroImage*, **2013**, 68, 236-47	7.9	68
35	Modeling 4D Changes in Pathological Anatomy using Domain Adaptation: Analysis of TBI Imaging using a Tumor Database. *Lecture Notes in Computer Science*, **2013**, 8159, 31-39	0.9	8
34	MODELING LONGITUDINAL MRI CHANGES IN POPULATIONS USING A LOCALIZED, INFORMATION-THEORETIC MEASURE OF CONTRAST **2013**, 2013, 1396-1399	1.5	1
33	ANALYZING IMAGING BIOMARKERS FOR TRAUMATIC BRAIN INJURY USING 4D MODELING OF LONGITUDINAL MRI **2013**, 2013, 1392-1395	1.5	8
32	MULTIVARIATE MODELING OF LONGITUDINAL MRI IN EARLY BRAIN DEVELOPMENT WITH CONFIDENCE MEASURES **2013**, 1400-1403	1.5	7
31	Brain Tumor Cell Density Estimation from Multi-modal MR Images Based on a Synthetic Tumor Growth Model. *Lecture Notes in Computer Science*, **2013**, 273-282	0.9	3
30	Geodesic shape regression in the framework of currents. *Lecture Notes in Computer Science*, **2013**, 23, 718-29	0.9	16
29	Geodesic image regression with a sparse parameterization of diffeomorphisms. *Lecture Notes in Computer Science*, **2013**, 8085, 95-102	0.9	3
28	Building Spatiotemporal Anatomical Models using Joint 4-D Segmentation, Registration, and Subject-Specific Atlas Estimation **2012**, 49-56		5
27	Neuroimaging of structural pathology and connectomics in traumatic brain injury: Toward personalized outcome prediction. *NeuroImage: Clinical*, **2012**, 1, 1-17	5.3	85
26	STATISTICAL GROWTH MODELING OF LONGITUDINAL DT-MRI FOR REGIONAL CHARACTERIZATION OF EARLY BRAIN DEVELOPMENT **2012**, 1507-1510	1.5	4
25	SEGMENTATION OF SERIAL MRI OF TBI PATIENTS USING PERSONALIZED ATLAS CONSTRUCTION AND TOPOLOGICAL CHANGE ESTIMATION **2012**, 1152-1155	1.5	15
24	QUANTIFYING REGIONAL GROWTH PATTERNS THROUGH LONGITUDINAL ANALYSIS OF DISTANCES BETWEEN MULTIMODAL MR INTENSITY DISTRIBUTIONS **2012**, 1156-1159	1.5	5
23	A Patient-Specific Segmentation Framework for Longitudinal MR Images of Traumatic Brain Injury. *Proceedings of SPIE*, **2012**, 8314, 831402	1.7	9
22	Analysis of longitudinal shape variability via subject specific growth modeling. *Lecture Notes in Computer Science*, **2012**, 15, 731-8	0.9	11
21	Topology preserving atlas construction from shape data without correspondence using sparse parameters. *Lecture Notes in Computer Science*, **2012**, 15, 223-30	0.9	19
20	Dark regions of no-reflow on late gadolinium enhancement magnetic resonance imaging result in scar formation after atrial fibrillation ablation. *Journal of the American College of Cardiology*, **2011**, 58, 177-85	15.1	81
19	Comparison of acute and chronic traumatic brain injury using semi-automatic multimodal segmentation of MR volumes. *Journal of Neurotrauma*, **2011**, 28, 2287-306	5.4	46

18	Efficient Probabilistic and Geometric Anatomical Mapping Using Particle Mesh Approximation on GPUs. *International Journal of Biomedical Imaging*, **2011**, 2011, 572187	5.2	5
17	Optimal data-driven sparse parameterization of diffeomorphisms for population analysis. *Lecture Notes in Computer Science*, **2011**, 22, 123-34	0.9	17
16	Spatio-Temporal Analysis of Early Brain Development. *Conference Record of the Asilomar Conference on Signals, Systems and Computers*, **2010**, 2010, 777-781	0.3	4
15	Towards Analysis of Growth Trajectory through Multi-modal Longitudinal MR Imaging. *Proceedings of SPIE*, **2010**, 7623,	1.7	3
14	A NEW FRAMEWORK FOR ANALYZING WHITE MATTER MATURATION IN EARLY BRAIN DEVELOPMENT **2010**, 97-100	1.5	10
13	Image registration driven by combined probabilistic and geometric descriptors. *Lecture Notes in Computer Science*, **2010**, 13, 602-9	0.9	6
12	Simulation of brain tumors in MR images for evaluation of segmentation efficacy. *Medical Image Analysis*, **2009**, 13, 297-311	15.4	94
11	Constrained data decomposition and regression for analyzing healthy aging from fiber tract diffusion properties. *Lecture Notes in Computer Science*, **2009**, 12, 321-8	0.9	4
10	Assessment of reliability of multi-site neuroimaging via traveling phantom study. *Lecture Notes in Computer Science*, **2008**, 11, 263-70	0.9	19
9	Brain Lesion Segmentation through Physical Model Estimation. *Lecture Notes in Computer Science*, **2008**, 562-571	0.9	5
8	Evaluation of Brain MRI Alignment with the Robust Hausdorff Distance Measures. *Lecture Notes in Computer Science*, **2008**, 594-603	0.9	18
7	Regional gray matter growth, sexual dimorphism, and cerebral asymmetry in the neonatal brain. *Journal of Neuroscience*, **2007**, 27, 1255-60	6.6	326
6	Multi-modal image set registration and atlas formation. *Medical Image Analysis*, **2006**, 10, 440-51	15.4	73
5	Synthetic ground truth for validation of brain tumor MRI segmentation. *Lecture Notes in Computer Science*, **2005**, 8, 26-33	0.9	19
4	Automatic segmentation of MR images of the developing newborn brain. *Medical Image Analysis*, **2005**, 9, 457-66	15.4	258
3	Effects of healthy aging measured by intracranial compartment volumes using a designed MR brain database. *Lecture Notes in Computer Science*, **2005**, 8, 383-91	0.9	21
2	A brain tumor segmentation framework based on outlier detection. *Medical Image Analysis*, **2004**, 8, 275-83	15.4	399
1	Automatic brain tumor segmentation by subject specific modification of atlas priors. *Academic Radiology*, **2003**, 10, 1341-8	4.3	192