

# Marcel Prastawa

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1993-2024	11.7	2132
52	A brain tumor segmentation framework based on outlier detection. <i>Medical Image Analysis</i> , <b>2004</b> , 8, 275-83	15.4	399
51	Regional gray matter growth, sexual dimorphism, and cerebral asymmetry in the neonatal brain. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 1255-60	6.6	326
50	Automatic segmentation of MR images of the developing newborn brain. <i>Medical Image Analysis</i> , <b>2005</b> , 9, 457-66	15.4	258
49	Automatic brain tumor segmentation by subject specific modification of atlas priors. <i>Academic Radiology</i> , <b>2003</b> , 10, 1341-8	4.3	192
48	BACH: Grand challenge on breast cancer histology images. <i>Medical Image Analysis</i> , <b>2019</b> , 56, 122-139	15.4	176
47	Morphometry of anatomical shape complexes with dense deformations and sparse parameters. <i>NeuroImage</i> , <b>2014</b> , 101, 35-49	7.9	140
46	Simulation of brain tumors in MR images for evaluation of segmentation efficacy. <i>Medical Image Analysis</i> , <b>2009</b> , 13, 297-311	15.4	94
45	Neuroimaging of structural pathology and connectomics in traumatic brain injury: Toward personalized outcome prediction. <i>NeuroImage: Clinical</i> , <b>2012</b> , 1, 1-17	5.3	85
44	Dark regions of no-reflow on late gadolinium enhancement magnetic resonance imaging result in scar formation after atrial fibrillation ablation. <i>Journal of the American College of Cardiology</i> , <b>2011</b> , 58, 177-85	15.1	81
43	Multi-modal image set registration and atlas formation. <i>Medical Image Analysis</i> , <b>2006</b> , 10, 440-51	15.4	73
42	Regional characterization of longitudinal DT-MRI to study white matter maturation of the early developing brain. <i>NeuroImage</i> , <b>2013</b> , 68, 236-47	7.9	68
41	Comparison of acute and chronic traumatic brain injury using semi-automatic multimodal segmentation of MR volumes. <i>Journal of Neurotrauma</i> , <b>2011</b> , 28, 2287-306	5.4	46
40	Artificial intelligence in neuropathology: deep learning-based assessment of tauopathy. <i>Laboratory Investigation</i> , <b>2019</b> , 99, 1019-1029	5.9	42
39	Effects of healthy aging measured by intracranial compartment volumes using a designed MR brain database. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8, 383-91	0.9	21
38	Synthetic ground truth for validation of brain tumor MRI segmentation. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8, 26-33	0.9	19
37	Assessment of reliability of multi-site neuroimaging via traveling phantom study. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 263-70	0.9	19

36	Topology preserving atlas construction from shape data without correspondence using sparse parameters. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 223-30	0.9	19
35	Evaluation of Brain MRI Alignment with the Robust Hausdorff Distance Measures. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 594-603	0.9	18
34	Optimal data-driven sparse parameterization of diffeomorphisms for population analysis. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 22, 123-34	0.9	17
33	Geodesic shape regression in the framework of currents. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 23, 718-29	0.9	16
32	4D ACTIVE CUT: AN INTERACTIVE TOOL FOR PATHOLOGICAL ANATOMY MODELING <b>2014</b> , 2014, 529-532	5	15
31	SEGMENTATION OF SERIAL MRI OF TBI PATIENTS USING PERSONALIZED ATLAS CONSTRUCTION AND TOPOLOGICAL CHANGE ESTIMATION <b>2012</b> , 1152-1155	1.5	15
30	Geodesic shape regression with multiple geometries and sparse parameters. <i>Medical Image Analysis</i> , <b>2017</b> , 39, 1-17	15.4	12
29	Automatic Tissue Segmentation of Neonate Brain MR Images with Subject-specific Atlases. <i>Proceedings of SPIE</i> , <b>2015</b> , 9413,	1.7	12
28	GEODESIC REGRESSION OF IMAGE AND SHAPE DATA FOR IMPROVED MODELING OF 4D TRAJECTORIES <b>2014</b> , 2014, 385-388	1.5	12
27	Analysis of longitudinal shape variability via subject specific growth modeling. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 731-8	0.9	11
26	A NEW FRAMEWORK FOR ANALYZING WHITE MATTER MATURATION IN EARLY BRAIN DEVELOPMENT <b>2010</b> , 97-100	1.5	10
25	A Patient-Specific Segmentation Framework for Longitudinal MR Images of Traumatic Brain Injury. <i>Proceedings of SPIE</i> , <b>2012</b> , 8314, 831402	1.7	9
24	Comparison of compressed sensing diffusion spectrum imaging and diffusion tensor imaging in patients with intracranial masses. <i>Magnetic Resonance Imaging</i> , <b>2017</b> , 36, 24-31	3.3	8
23	Modeling 4D Changes in Pathological Anatomy using Domain Adaptation: Analysis of TBI Imaging using a Tumor Database. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 8159, 31-39	0.9	8
22	ANALYZING IMAGING BIOMARKERS FOR TRAUMATIC BRAIN INJURY USING 4D MODELING OF LONGITUDINAL MRI <b>2013</b> , 2013, 1392-1395	1.5	8
21	MULTIVARIATE MODELING OF LONGITUDINAL MRI IN EARLY BRAIN DEVELOPMENT WITH CONFIDENCE MEASURES <b>2013</b> , 1400-1403	1.5	7
20	Image registration driven by combined probabilistic and geometric descriptors. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 602-9	0.9	6
19	Building Spatiotemporal Anatomical Models using Joint 4-D Segmentation, Registration, and Subject-Specific Atlas Estimation <b>2012</b> , 49-56		5

18	Efficient Probabilistic and Geometric Anatomical Mapping Using Particle Mesh Approximation on GPUs. <i>International Journal of Biomedical Imaging</i> , <b>2011</b> , 2011, 572187	5.2	5
17	QUANTIFYING REGIONAL GROWTH PATTERNS THROUGH LONGITUDINAL ANALYSIS OF DISTANCES BETWEEN MULTIMODAL MR INTENSITY DISTRIBUTIONS <b>2012</b> , 1156-1159	1.5	5
16	Brain Lesion Segmentation through Physical Model Estimation. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 562-571	0.9	5
15	Ensemble Network for Region Identification in Breast Histopathology Slides. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 861-868	0.9	5
14	Spatio-Temporal Analysis of Early Brain Development. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , <b>2010</b> , 2010, 777-781	0.3	4
13	STATISTICAL GROWTH MODELING OF LONGITUDINAL DT-MRI FOR REGIONAL CHARACTERIZATION OF EARLY BRAIN DEVELOPMENT <b>2012</b> , 1507-1510	1.5	4
12	Constrained data decomposition and regression for analyzing healthy aging from fiber tract diffusion properties. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 321-8	0.9	4
11	Characterizing growth patterns in longitudinal MRI using image contrast. <i>Proceedings of SPIE</i> , <b>2014</b> , 9034, 90340D	1.7	3
10	Brain Tumor Cell Density Estimation from Multi-modal MR Images Based on a Synthetic Tumor Growth Model. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 273-282	0.9	3
9	Towards Analysis of Growth Trajectory through Multi-modal Longitudinal MR Imaging. <i>Proceedings of SPIE</i> , <b>2010</b> , 7623,	1.7	3
8	Geodesic image regression with a sparse parameterization of diffeomorphisms. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 8085, 95-102	0.9	3
7	Subject-specific prediction using nonlinear population modeling: application to early brain maturation from DTI. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 33-40	0.9	3
6	Modeling 4D Pathological Changes by Leveraging Normative Models. <i>Computer Vision and Image Understanding</i> , <b>2016</b> , 151, 3-13	4.3	2
5	A JOINT FRAMEWORK FOR 4D SEGMENTATION AND ESTIMATION OF SMOOTH TEMPORAL APPEARANCE CHANGES <b>2014</b> , 2014, 1291-1294	1.5	1
4	MODELING LONGITUDINAL MRI CHANGES IN POPULATIONS USING A LOCALIZED, INFORMATION-THEORETIC MEASURE OF CONTRAST <b>2013</b> , 2013, 1396-1399	1.5	1
3	Data-Driven Rank Aggregation with Application to Grand Challenges. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 754-762	0.9	1
2	Antemortem detection of Parkinson's disease pathology in peripheral biopsies using artificial intelligence.. <i>Acta Neuropathologica Communications</i> , <b>2022</b> , 10, 21	7.3	1
1	Screening peripheral biopsies for alpha-synuclein pathology using deep machine learning. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, e047358	1.2	

