

# Aristeidis Sotiras

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

5,170  
citations

236925

25  
h-index

168389

53  
g-index

81  
all docs

81  
docs citations

81  
times ranked

6171  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advancing The Cancer Genome Atlas glioma MRI collections with expert segmentation labels and radiomic features. <i>Scientific Data</i> , 2017, 4, 170117.	5.3	1,555
2	Deformable Medical Image Registration: A Survey. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1153-1190.	8.9	1,094
3	DRAMMS: Deformable registration via attribute matching and mutual-saliency weighting. <i>Medical Image Analysis</i> , 2011, 15, 622-639.	11.6	335
4	Deformable Medical Image Registration: Setting the State of the Art with Discrete Methods. <i>Annual Review of Biomedical Engineering</i> , 2011, 13, 219-244.	12.3	163
5	Two distinct neuroanatomical subtypes of schizophrenia revealed using machine learning. <i>Brain</i> , 2020, 143, 1027-1038.	7.6	158
6	Patterns of coordinated cortical remodeling during adolescence and their associations with functional specialization and evolutionary expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3527-3532.	7.1	130
7	Finding imaging patterns of structural covariance via Non-Negative Matrix Factorization. <i>NeuroImage</i> , 2015, 108, 1-16.	4.2	127
8	HYDRA: Revealing heterogeneity of imaging and genetic patterns through a multiple max-margin discriminative analysis framework. <i>NeuroImage</i> , 2017, 145, 346-364.	4.2	125
9	Heterogeneity of neuroanatomical patterns in prodromal Alzheimer's disease: links to cognition, progression and biomarkers. <i>Brain</i> , 2017, 140, aww319.	7.6	114
10	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	1.5	110
11	Evaluation of non-negative matrix factorization of grey matter in age prediction. <i>NeuroImage</i> , 2018, 173, 394-410.	4.2	99
12	White matter lesions. <i>Neurology</i> , 2018, 91, e964-e975.	1.1	92
13	Evidence for Dissociable Linkage of Dimensions of Psychopathology to Brain Structure in Youths. <i>American Journal of Psychiatry</i> , 2019, 176, 1000-1009.	7.2	77
14	Differential cortical microstructural maturation in the preterm human brain with diffusion kurtosis and tensor imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4681-4688.	7.1	73
15	Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2016, 12, 645-653.	0.8	72
16	Neurobiological Divergence of the Positive and Negative Schizophrenia Subtypes Identified on a New Factor Structure of Psychopathology Using Non-negative Factorization: An International Machine Learning Study. <i>Biological Psychiatry</i> , 2020, 87, 282-293.	1.3	68
17	GLISTRboost: Combining Multimodal MRI Segmentation, Registration, and Biophysical Tumor Growth Modeling with Gradient Boosting Machines for Glioma Segmentation. <i>Lecture Notes in Computer Science</i> , 2016, , 144-155.	1.3	61
18	Diminished Cortical Thickness Is Associated with Impulsive Choice in Adolescence. <i>Journal of Neuroscience</i> , 2018, 38, 2471-2481.	3.6	55

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19	Brain Lesions, Introduction. Lecture Notes in Computer Science, 2016, 9556, 1-5.	1.3	48
20	Characterizing Heterogeneity in Neuroimaging, Cognition, Clinical Symptoms, and Genetics Among Patients With Late-Life Depression. JAMA Psychiatry, 2022, 79, 464.	11.0	47
21	A deep learning framework identifies dimensional representations of Alzheimer's Disease from brain structure. Nature Communications, 2021, 12, 7065.	12.8	38
22	Neurostructural Heterogeneity in Youths With Internalizing Symptoms. Biological Psychiatry, 2020, 87, 473-482.	1.3	34
23	The Cancer Imaging Phenomics Toolkit (CaPTk): Technical Overview. Lecture Notes in Computer Science, 2020, 11993, 380-394.	1.3	34
24	Precision diagnostics based on machine learning-derived imaging signatures. Magnetic Resonance Imaging, 2019, 64, 49-61.	1.8	31
25	Approaches to Defining Common and Dissociable Neurobiological Deficits Associated With Psychopathology in Youth. Biological Psychiatry, 2020, 88, 51-62.	1.3	30
26	Multi-scale semi-supervised clustering of brain images: Deriving disease subtypes. Medical Image Analysis, 2022, 75, 102304.	11.6	28
27	Segmentation of Gliomas in Pre-operative and Post-operative Multimodal Magnetic Resonance Imaging Volumes Based on a Hybrid Generative-Discriminative Framework. Lecture Notes in Computer Science, 2016, 10154, 184-194.	1.3	27
28	MRI-based Identification and Classification of Major Intracranial Tumor Types by Using a 3D Convolutional Neural Network: A Retrospective Multi-institutional Analysis. Radiology: Artificial Intelligence, 2021, 3, e200301.	5.8	27
29	Accelerated cortical thinning within structural brain networks is associated with irritability in youth. Neuropsychopharmacology, 2019, 44, 2254-2262.	5.4	26
30	Overall survival prediction in glioblastoma patients using structural magnetic resonance imaging (MRI): advanced radiomic features may compensate for lack of advanced MRI modalities. Journal of Medical Imaging, 2020, 7, 1.	1.5	26
31	Gestational Age is Dimensionally Associated with Structural Brain Network Abnormalities Across Development. Cerebral Cortex, 2019, 29, 2102-2114.	2.9	25
32	Simultaneous Geometric - Iconic Registration. Lecture Notes in Computer Science, 2010, 13, 676-683.	1.3	21
33	Schizophrenia Imaging Signatures and Their Associations With Cognition, Psychopathology, and Genetics in the General Population. American Journal of Psychiatry, 2022, 179, 650-660.	7.2	18
34	Structural brain networks in remitted psychotic depression. Neuropsychopharmacology, 2020, 45, 1223-1231.	5.4	17
35	Graphical Models and Deformable Diffeomorphic Population Registration Using Global and Local Metrics. Lecture Notes in Computer Science, 2009, 12, 672-679.	1.3	17
36	MIDAS: Regionally linear multivariate discriminative statistical mapping. NeuroImage, 2018, 174, 111-126.	4.2	15

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37	APOE Effect on Amyloid- $\beta$ PET Spatial Distribution, Deposition Rate, and Cut-Points. Journal of Alzheimer's Disease, 2019, 69, 783-793.	2.6	15
38	A Discrete MRF Framework for Integrated Multi-Atlas Registration and Segmentation. International Journal of Computer Vision, 2017, 121, 169-181.	15.6	13
39	Disentangling Alzheimer's disease neurodegeneration from typical brain ageing using machine learning. Brain Communications, 2022, 4, .	3.3	12
40	Discrete symmetric image registration. , 2012, , .		11
41	S12. Dimensions of Psychopathology are Dissociably Linked to Brain Structure in Youth. Biological Psychiatry, 2019, 85, S301.	1.3	10
42	Neurocognitive and functional heterogeneity in depressed youth. Neuropsychopharmacology, 2021, 46, 783-790.	5.4	10
43	Efficient and Automated Multimodal Satellite Data Registration through MRFs and Linear Programming. , 2014, , .		8
44	Abnormality Detection via Iterative Deformable Registration and Basis-Pursuit Decomposition. IEEE Transactions on Medical Imaging, 2016, 35, 1937-1951.	8.9	8
45	Generative Discriminative Models for Multivariate Inference and Statistical Mapping in Medical Imaging. Lecture Notes in Computer Science, 2018, , 540-548.	1.3	6
46	<sc>Age-dependent</sc> white matter disruptions after military traumatic brain injury: Multivariate analysis results from <sc>ENIGMA</sc> brain injury. Human Brain Mapping, 2022, 43, 2653-2667.	3.6	6
47	Efficient parallel message computation for MAP inference. , 2011, , .		5
48	Deriving Statistical Significance Maps for Support Vector Regression Using Medical Imaging Data. , 2013, 2013, 13-16.		5
49	Atlas-based deformable mutual population segmentation. , 2009, , .		4
50	Integrative radiomic analysis for pre-surgical prognostic stratification of glioblastoma patients: from advanced to basic MRI protocols. , 2020, 11315, .		4
51	Synthesizing pseudo-T2w images to recapture missing data in neonatal neuroimaging with applications in rs-fMRI. NeuroImage, 2022, 253, 119091.	4.2	4
52	Local atlas selection for discrete multi-atlas segmentation. , 2015, , .		3
53	Timing and Type of Early Psychopathology Symptoms Predict Longitudinal Change in Cortical Thickness From Middle Childhood Into Early Adolescence. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2022, 7, 397-405.	1.5	3
54	Disentangling Disease Heterogeneity with Max-Margin Multiple Hyperplane Classifier. Lecture Notes in Computer Science, 2015, 9349, 702-709.	1.3	3

#	ARTICLE	IF	CITATIONS
55	Novel Gyrfication Networks Reveal Links with Psychiatric Risk Factors in Early Illness. Cerebral Cortex, 2021, , .	2.9	2
56	Graph-Based Motion-Driven Segmentation of the Carotid Atherosclerotic Plaque in 2D Ultrasound Sequences. Lecture Notes in Computer Science, 2015, , 551-559.	1.3	2
57	Bioluminescence enhancement through fusion of optical imaging and cinematic video flow. , 2010, , .		1
58	ICâ€Pâ€021: MULTIVARIATE PATTERN ANALYSIS ON A LONGITUDINAL COHORT OF COGNITIVELY NORMAL ELDERLY REVEALS DISTINCT STAGES OF REGIONAL AMYLOID DEPOSITION. Alzheimer's and Dementia, 2018, 14, P26.	0.8	1
59	Regionally discriminative multivariate statistical mapping. , 2018, , .		1
60	T195. Neuroanatomical Heterogeneity of Schizophrenia Quantified via Semi-Supervised Machine Learning Reveals Two Distinct Subtypes: Results From the PHENOM Consortium. Biological Psychiatry, 2019, 85, S205-S206.	1.3	1
61	Sparse Classification with MRI Based Markers for Neuromuscular Disease Categorization. Lecture Notes in Computer Science, 2013, , 33-40.	1.3	1
62	P2-168: Multivariate spatial patterns of amyloid deposition revealed through non-negative matrix factorization. , 2015, 11, P553-P554.		0
63	Modular linear iconic matching using higher order graphs. , 2015, , .		0
64	Structured Outlier Detection in Neuroimaging Studies with Minimal Convex Polytopes. Lecture Notes in Computer Science, 2016, 9900, 300-307.	1.3	0
65	P2â€371: CSFâ€CAT: A COMPOSITE CSF AÎ² AND TAU INDEX TOWARD RADIOâ€PATHOMICS OF ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2018, 14, P836.	0.8	0
66	O1â€13â€02: MULTIVARIATE PATTERN ANALYSIS ON A LONGITUDINAL COHORT OF COGNITIVELY NORMAL ELDERLY REVEALS DISTINCT STAGES OF REGIONAL AMYLOID DEPOSITION. Alzheimer's and Dementia, 2018, 14, P252.	0.8	0
67	Statistically-constrained robust diffeomorphic registration. , 2018, , .		0
68	178. Brain Network Biomarkers of Remitted Psychotic Depression. Biological Psychiatry, 2019, 85, S73-S74.	1.3	0
69	S197. An International Machine Learning Study of Modeling the Psychopathology in Schizophrenia: From Symptomatology to Neuroimaging Endophenotypes. Biological Psychiatry, 2019, 85, S373-S374.	1.3	0