

# 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	Timing and Type of Early Psychopathology Symptoms Predict Longitudinal Change in Cortical Thickness From Middle Childhood Into Early Adolescence. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2022, 7, 397-405.	1.5	3
2	Multi-scale semi-supervised clustering of brain images: Deriving disease subtypes. <i>Medical Image Analysis</i> , 2022, 75, 102304.	11.6	28
3	Characterizing Heterogeneity in Neuroimaging, Cognition, Clinical Symptoms, and Genetics Among Patients With Late-Life Depression. <i>JAMA Psychiatry</i> , 2022, 79, 464.	11.0	47
4	<sc>Ageâ€dependent</sc> white matter disruptions after military traumatic brain injury: Multivariate analysis results from <sc>ENIGMA</sc> brain injury. <i>Human Brain Mapping</i> , 2022, 43, 2653-2667.	3.6	6
5	Synthesizing pseudo-T2w images to recapture missing data in neonatal neuroimaging with applications in rs-fMRI. <i>NeuroImage</i> , 2022, 253, 119091.	4.2	4
6	Schizophrenia Imaging Signatures and Their Associations With Cognition, Psychopathology, and Genetics in the General Population. <i>American Journal of Psychiatry</i> , 2022, 179, 650-660.	7.2	18
7	Disentangling Alzheimerâ€™s disease neurodegeneration from typical brain ageing using machine learning. <i>Brain Communications</i> , 2022, 4, .	3.3	12
8	Neurocognitive and functional heterogeneity in depressed youth. <i>Neuropsychopharmacology</i> , 2021, 46, 783-790.	5.4	10
9	Novel Gyrfication Networks Reveal Links with Psychiatric Risk Factors in Early Illness. <i>Cerebral Cortex</i> , 2021, , .	2.9	2
10	MRI-based Identification and Classification of Major Intracranial Tumor Types by Using a 3D Convolutional Neural Network: A Retrospective Multi-institutional Analysis. <i>Radiology: Artificial Intelligence</i> , 2021, 3, e200301.	5.8	27
11	A deep learning framework identifies dimensional representations of Alzheimerâ€™s Disease from brain structure. <i>Nature Communications</i> , 2021, 12, 7065.	12.8	38
12	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
13	Neurostructural Heterogeneity in Youths With Internalizing Symptoms. <i>Biological Psychiatry</i> , 2020, 87, 473-482.	1.3	34
14	Approaches to Defining Common and Dissociable Neurobiological Deficits Associated With Psychopathology in Youth. <i>Biological Psychiatry</i> , 2020, 88, 51-62.	1.3	30
15	Structural brain networks in remitted psychotic depression. <i>Neuropsychopharmacology</i> , 2020, 45, 1223-1231.	5.4	17
16	Two distinct neuroanatomical subtypes of schizophrenia revealed using machine learning. <i>Brain</i> , 2020, 143, 1027-1038.	7.6	158
17	The Cancer Imaging Phenomics Toolkit (CaPTk): Technical Overview. <i>Lecture Notes in Computer Science</i> , 2020, 11993, 380-394.	1.3	34
18	Overall survival prediction in glioblastoma patients using structural magnetic resonance imaging (MRI): advanced radiomic features may compensate for lack of advanced MRI modalities. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	1.5	26

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19	Integrative radiomic analysis for pre-surgical prognostic stratification of glioblastoma patients: from advanced to basic MRI protocols. , 2020, 11315, .		4
20	Accelerated cortical thinning within structural brain networks is associated with irritability in youth. Neuropsychopharmacology, 2019, 44, 2254-2262.	5.4	26
21	S12. Dimensions of Psychopathology are Dissociably Linked to Brain Structure in Youth. Biological Psychiatry, 2019, 85, S301.	1.3	10
22	178. Brain Network Biomarkers of Remitted Psychotic Depression. Biological Psychiatry, 2019, 85, S73-S74.	1.3	0
23	Evidence for Dissociable Linkage of Dimensions of Psychopathology to Brain Structure in Youths. American Journal of Psychiatry, 2019, 176, 1000-1009.	7.2	77
24	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
25	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
26	Precision diagnostics based on machine learning-derived imaging signatures. Magnetic Resonance Imaging, 2019, 64, 49-61.	1.8	31
27	Differential cortical microstructural maturation in the preterm human brain with diffusion kurtosis and tensor imaging. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4681-4688.	7.1	73
28	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
29	Gestational Age is Dimensionally Associated with Structural Brain Network Abnormalities Across Development. Cerebral Cortex, 2019, 29, 2102-2114.	2.9	25
30	Evaluation of non-negative matrix factorization of grey matter in age prediction. NeuroImage, 2018, 173, 394-410.	4.2	99
31	Diminished Cortical Thickness Is Associated with Impulsive Choice in Adolescence. Journal of Neuroscience, 2018, 38, 2471-2481.	3.6	55
32	MIDAS: Regionally linear multivariate discriminative statistical mapping. NeuroImage, 2018, 174, 111-126.	4.2	15
33	P2â€³71: CSFâ€³AT: A COMPOSITE CSF A $\beta$ 2 AND TAU INDEX TOWARD RADIOâ€³PATHOMICS OF ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2018, 14, P836.	0.8	0
34	ICâ€³Pâ€³021: 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
35	O1â€³13â€³02: 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
36	Statistically-constrained robust diffeomorphic registration. , 2018, , .		0

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37	White matter lesions. <i>Neurology</i> , 2018, 91, e964-e975.	1.1	92
38	Regionally discriminative multivariate statistical mapping. , 2018, , .		1
39	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
40	Generative Discriminative Models for Multivariate Inference and Statistical Mapping in Medical Imaging. <i>Lecture Notes in Computer Science</i> , 2018, , 540-548.	1.3	6
41	Heterogeneity of neuroanatomical patterns in prodromal Alzheimer's disease: links to cognition, progression and biomarkers. <i>Brain</i> , 2017, 140, aww319.	7.6	114
42	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
43	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
44	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
45	A Discrete MRF Framework for Integrated Multi-Atlas Registration and Segmentation. <i>International Journal of Computer Vision</i> , 2017, 121, 169-181.	15.6	13
46	Segmentation of Gliomas in Pre-operative and Post-operative Multimodal Magnetic Resonance Imaging Volumes Based on a Hybrid Generative-Discriminative Framework. <i>Lecture Notes in Computer Science</i> , 2016, 10154, 184-194.	1.3	27
47	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
48	Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2016, 12, 645-653.	0.8	72
49	Structured Outlier Detection in Neuroimaging Studies with Minimal Convex Polytopes. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 300-307.	1.3	0
50	Abnormality Detection via Iterative Deformable Registration and Basis-Pursuit Decomposition. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1937-1951.	8.9	8
51	Brain Lesions, Introduction. <i>Lecture Notes in Computer Science</i> , 2016, 9556, 1-5.	1.3	48
52	P2-168: Multivariate spatial patterns of amyloid deposition revealed through non-negative matrix factorization. , 2015, 11, P553-P554.		0
53	Modular linear iconic matching using higher order graphs. , 2015, , .		0
54	Local atlas selection for discrete multi-atlas segmentation. , 2015, , .		3

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55	Finding imaging patterns of structural covariance via Non-Negative Matrix Factorization. <i>NeuroImage</i> , 2015, 108, 1-16.	4.2	127
56	Disentangling Disease Heterogeneity with Max-Margin Multiple Hyperplane Classifier. <i>Lecture Notes in Computer Science</i> , 2015, 9349, 702-709.	1.3	3
57	Graph-Based Motion-Driven Segmentation of the Carotid Atherosclerotic Plaque in 2D Ultrasound Sequences. <i>Lecture Notes in Computer Science</i> , 2015, , 551-559.	1.3	2
58	Efficient and Automated Multimodal Satellite Data Registration through MRFs and Linear Programming. , 2014, , .		8
59	Deformable Medical Image Registration: A Survey. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1153-1190.	8.9	1,094
60	Deriving Statistical Significance Maps for Support Vector Regression Using Medical Imaging Data. , 2013, 2013, 13-16.		5
61	Sparse Classification with MRI Based Markers for Neuromuscular Disease Categorization. <i>Lecture Notes in Computer Science</i> , 2013, , 33-40.	1.3	1
62	Discrete symmetric image registration. , 2012, , .		11
63	Efficient parallel message computation for MAP inference. , 2011, , .		5
64	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
65	DRAMMS: Deformable registration via attribute matching and mutual-saliency weighting. <i>Medical Image Analysis</i> , 2011, 15, 622-639.	11.6	335
66	Bioluminescence enhancement through fusion of optical imaging and cinematic video flow. , 2010, , .		1
67	Simultaneous Geometric - Iconic Registration. <i>Lecture Notes in Computer Science</i> , 2010, 13, 676-683.	1.3	21
68	Atlas-based deformable mutual population segmentation. , 2009, , .		4
69	Graphical Models and Deformable Diffeomorphic Population Registration Using Global and Local Metrics. <i>Lecture Notes in Computer Science</i> , 2009, 12, 672-679.	1.3	17