

Michel Dojat

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.

121 papers	4,968 citations	25 h-index	70 g-index
150 ext. papers	6,017 ext. citations	3.7 avg, IF	4.74 L-index

#	Paper	IF	Citations
121	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1993-2024	11.7	2132
120	A multicenter randomized trial of computer-driven protocolized weaning from mechanical ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006 , 174, 894-900	10.2	842
119	fMRI retinotopic mapping--step by step. <i>NeuroImage</i> , 2002 , 17, 1665-83	7.9	149
118	Clinical evaluation of a computer-controlled pressure support mode. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2000 , 161, 1161-6	10.2	125
117	Sequence of pattern onset responses in the human visual areas: an fMRI constrained VEP source analysis. <i>NeuroImage</i> , 2004 , 21, 801-17	7.9	112
116	Evaluation of a knowledge-based system providing ventilatory management and decision for extubation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1996 , 153, 997-1004	10.2	110
115	Moving illusory contours activate primary visual cortex: an fMRI study. <i>Cerebral Cortex</i> , 2000 , 10, 663-70	5.1	95
114	A knowledge-based system for assisted ventilation of patients in intensive care units. <i>Journal of Clinical Monitoring and Computing</i> , 1992 , 9, 239-50		89
113	Objective Evaluation of Multiple Sclerosis Lesion Segmentation using a Data Management and Processing Infrastructure. <i>Scientific Reports</i> , 2018 , 8, 13650	4.9	87
112	The neural bases of grapheme-color synesthesia are not localized in real color-sensitive areas. <i>Cerebral Cortex</i> , 2012 , 22, 1622-33	5.1	67
111	NòGanesh: a working system for the automated control of assisted ventilation in ICUs. <i>Artificial Intelligence in Medicine</i> , 1997 , 11, 97-117	7.4	65
110	A UMLS-based knowledge acquisition tool for rule-based clinical decision support system development. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2001 , 8, 351-60	8.6	57
109	Computer-driven management of prolonged mechanical ventilation and weaning: a pilot study. <i>Intensive Care Medicine</i> , 2005 , 31, 1446-50	14.5	51
108	Distributed local MRF models for tissue and structure brain segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1278-95	11.7	50
107	Multimodal MRI segmentation of ischemic stroke lesions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 1595-8		46
106	Towards an ontology for sharing medical images and regions of interest in neuroimaging. <i>Journal of Biomedical Informatics</i> , 2008 , 41, 766-78	10.2	45
105	Fast joint detection-estimation of evoked brain activity in event-related fMRI using a variational approach. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 821-37	11.7	43

104	Desperately seeking grey matter volume changes in sleep apnea: A methodological review of magnetic resonance brain voxel-based morphometry studies. <i>Sleep Medicine Reviews</i> , 2016 , 25, 112-20	10.2	39
103	A critical review of the neuroimaging literature on synesthesia. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 103	3.3	37
102	A cooperative framework for segmentation of MRI brain scans. <i>Artificial Intelligence in Medicine</i> , 2000 , 20, 77-93	7.4	35
101	Automated segmentation of human brain MR images using a multi-agent approach. <i>Artificial Intelligence in Medicine</i> , 2004 , 30, 153-75	7.4	34
100	Retinotopic and lateralized processing of spatial frequencies in human visual cortex during scene categorization. <i>Journal of Cognitive Neuroscience</i> , 2013 , 25, 1315-31	3.1	33
99	Timing of interactions across the visual field in the human cortex. <i>NeuroImage</i> , 2004 , 21, 818-28	7.9	33
98	Scenario recognition for temporal reasoning in medical domains. <i>Artificial Intelligence in Medicine</i> , 1998 , 14, 139-55	7.4	32
97	Knowledge construction from time series data using a collaborative exploration system. <i>Journal of Biomedical Informatics</i> , 2007 , 40, 672-87	10.2	32
96	Distributed Markovian segmentation: Application to MR brain scans. <i>Pattern Recognition</i> , 2007 , 40, 3467-3480	7.7	25
95	A BOLD signature of eyeblinks in the visual cortex. <i>NeuroImage</i> , 2012 , 61, 149-61	7.9	24
94	Realistic model for temporal reasoning in real-time patient monitoring. <i>Applied Artificial Intelligence</i> , 1996 , 10, 121-144	2.3	21
93	Knowledge-based systems for automatic ventilatory management. <i>Respiratory Care Clinics of North America</i> , 2001 , 7, 379-96, viii		20
92	Using a general theory of time and change in patient monitoring: experiment and evaluation. <i>Computers in Biology and Medicine</i> , 1997 , 27, 435-52	7	19
91	Adaptive weighted fusion of multiple MR sequences for brain lesion segmentation 2010 ,		17
90	Multi-level temporal abstraction for medical scenario construction. <i>International Journal of Adaptive Control and Signal Processing</i> , 2005 , 19, 377-394	2.8	17
89	Temporal and Spatial Independent Component Analysis for fMRI Data Sets Embedded in theAnalyzeFMRIRPackage. <i>Journal of Statistical Software</i> , 2011 , 44,	7.3	16
88	DEGEL: A Hybrid, Multiple-Ontology Framework for Specification and Retrieval of Clinical Guidelines. <i>Lecture Notes in Computer Science</i> , 2003 , 122-131	0.9	16
87	Age-Related Differences in Spatial Frequency Processing during Scene Categorization. <i>PLoS ONE</i> , 2015 , 10, e0134554	3.7	15

86	Two new stable anatomical landmarks on the Central Sulcus: definition, automatic detection, and their relationship with primary motor functions of the hand. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 7795-8	0.9	14
85	Contributions of contour frequency, amplitude, and luminance to the watercolor effect estimated by conjoint measurement. <i>Journal of Vision</i> , 2014 , 14,	0.4	13
84	A multilayer ontology of instruments for neurological, behavioral and cognitive assessments. <i>Neuroinformatics</i> , 2015 , 13, 93-110	3.2	12
83	Effects of background and contour luminance on the hue and brightness of the Watercolor effect. <i>Vision Research</i> , 2018 , 144, 9-19	2.1	11
82	Use of maximum end-tidal CO(2) values to improve end-tidal CO(2) monitoring accuracy. <i>Respiratory Care</i> , 2011 , 56, 278-83	2.1	11
81	Agentification of Markov model-based segmentation: application to magnetic resonance brain scans. <i>Artificial Intelligence in Medicine</i> , 2009 , 46, 81-95	7.4	10
80	Constraint reasoning in deep biomedical models. <i>Artificial Intelligence in Medicine</i> , 2005 , 34, 77-88	7.4	10
79	Mechanical ventilation: changing concepts. <i>Indian Journal of Critical Care Medicine</i> , 2005 , 9, 235-243	1.3	10
78	Effects of aging on low luminance contrast processing in humans. <i>NeuroImage</i> , 2016 , 139, 415-426	7.9	10
77	Local landmark alignment for high-resolution fMRI group studies: toward a fine cortical investigation of hand movements in human. <i>Journal of Neuroscience Methods</i> , 2013 , 218, 83-95	3	9
76	Spatial selectivity of the watercolor effect. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, A1-6	1.8	9
75	Deep Learning Models to Study the Early Stages of Parkinson's Disease 2020 ,		8
74	The NewGuide Project: Guidelines, Information Sharing and Learning from Exceptions. <i>Lecture Notes in Computer Science</i> , 2003 , 163-167	0.9	8
73	Statistical shape modeling of low level visual area borders. <i>Medical Image Analysis</i> , 2004 , 8, 353-60	15.4	8
72	Knowledge-based information management in intensive care and anesthesia. <i>Artificial Intelligence in Medicine</i> , 2000 , 19, 185-7	7.4	8
71	Effective domain-dependent reuse in medical knowledge bases. <i>Journal of Biomedical Informatics</i> , 1995 , 28, 403-432		8
70	NeuroLOG: sharing neuroimaging data using an ontology-based federated approach 2011 , 2011, 472-80	0.7	8
69	Magnetic resonance imaging does not reveal structural alterations in the brain of grapheme-color synesthetes. <i>PLoS ONE</i> , 2018 , 13, e0194422	3.7	8

68	Neural circuits for long-range color filling-in. <i>NeuroImage</i> , 2018 , 181, 30-43	7.9	7
67	The relationship between positive or negative phrasing and patientsScoping with lateral epicondylitis. <i>Journal of Shoulder and Elbow Surgery</i> , 2014 , 23, 567-72	4.3	7
66	Feasibility and reliability of an automated controller of inspired oxygen concentration during mechanical ventilation. <i>Critical Care</i> , 2014 , 18, R35	10.8	7
65	Quantitative evaluation of fMRI retinotopic maps, from V1 to V4, for cognitive experiments. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 277	3.3	7
64	Global integration of local color differences in transparency perception: An fMRI study. <i>Visual Neuroscience</i> , 2006 , 23, 357-64	1.7	7
63	MRF Agent Based Segmentation: Application to MRI Brain Scans. <i>Lecture Notes in Computer Science</i> , 2007 , 13-23	0.9	7
62	Fully Bayesian joint model for MR brain scan tissue and structure segmentation. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 1066-74	0.9	7
61	fMRI retinotopic mapping at 3 T: benefits gained from correcting the spatial distortions due to static field inhomogeneity. <i>Journal of Vision</i> , 2010 , 10, 30	0.4	6
60	Grid-wide neuroimaging data federation in the context of the NeuroLOG project. <i>Studies in Health Technology and Informatics</i> , 2010 , 159, 112-23	0.5	6
59	Visual Dysfunction of the Superior Colliculus in De Novo Parkinsonian Patients. <i>Annals of Neurology</i> , 2020 , 87, 533-546	9.4	5
58	Multi-agent Approach for Image Processing: A Case Study for MRI Human Brain Scans Interpretation. <i>Lecture Notes in Computer Science</i> , 2003 , 91-100	0.9	5
57	Sub-acute and Chronic Ischemic Stroke Lesion MRI Segmentation. <i>Lecture Notes in Computer Science</i> , 2018 , 111-122	0.9	5
56	Interactive Decision Support for Medical Planning. <i>Lecture Notes in Computer Science</i> , 2003 , 335-339	0.9	5
55	Small Animal Shanoir (SAS) A Cloud-Based Solution for Managing Preclinical MR Brain Imaging Studies. <i>Frontiers in Neuroinformatics</i> , 2020 , 14, 20	3.9	4
54	A Multicenter Preclinical MRI Study: Definition of Rat Brain Relaxometry Reference Maps. <i>Frontiers in Neuroinformatics</i> , 2020 , 14, 22	3.9	4
53	Temporal scenario recognition for intelligent patient monitoring. <i>Lecture Notes in Computer Science</i> , 1997 , 331-342	0.9	4
52	Learning-Free Text Categorization. <i>Lecture Notes in Computer Science</i> , 2003 , 199-208	0.9	4
51	Using Description Logics for Managing Medical Terminologies. <i>Lecture Notes in Computer Science</i> , 2003 , 61-70	0.9	4

50	LOCUS: local cooperative unified segmentation of MRI brain scans 2007 , 10, 219-27		4
49	Multiple sclerosis lesions segmentation from multiple experts: The MICCAI 2016 challenge dataset. <i>NeuroImage</i> , 2021 , 244, 118589	7.9	4
48	Knowledge-Based Query Expansion over a Medical Terminology Oriented Ontology on the Web. <i>Lecture Notes in Computer Science</i> , 2003 , 209-213	0.9	3
47	A Joint Bayesian Framework for MR Brain Scan Tissue and Structure Segmentation Based on Distributed Markovian Agents. <i>Studies in Computational Intelligence</i> , 2010 , 81-101	0.8	3
46	Use of Pattern-Information Analysis in Vision Science: A Pragmatic Examination. <i>Lecture Notes in Computer Science</i> , 2012 , 103-110	0.9	3
45	Variational solution to the joint detection estimation of brain activity in fMRI. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 260-8	0.9	3
44	Modeling medical reasoning with the Event Calculus: an application to the management of mechanical ventilation. <i>Lecture Notes in Computer Science</i> , 1995 , 79-90	0.9	3
43	Multivariate pattern analysis of fMRI data for imaginary and real colours in grapheme-colour synaesthesia. <i>European Journal of Neuroscience</i> , 2020 , 52, 3434-3456	3.5	2
42	Computerised Advice on Drug Dosage Decisions in Childhood Leukaemia: A Method and a Safety Strategy. <i>Lecture Notes in Computer Science</i> , 2003 , 158-162	0.9	2
41	Classification of Ovarian Tumors Using Bayesian Least Squares Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2003 , 219-228	0.9	2
40	Representing medical context using rule-based object-oriented programming techniques. <i>Lecture Notes in Computer Science</i> , 1995 , 423-424	0.9	2
39	The Use of the UMLS Knowledge Sources for the Design of a Domain Specific Ontology: A Practical Experience in Blood Transfusion. <i>Lecture Notes in Computer Science</i> , 1999 , 249-253	0.9	2
38	Modulation of visual hallucinations originating from deafferented occipital cortex by robotized transcranial magnetic stimulation. <i>Clinical Neurophysiology</i> , 2020 , 131, 1728-1730	4.3	1
37	Quantifying the watercolor effect: from stimulus properties to neural models. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 805	3.3	1
36	Combination of nonlinear registration methods with high resolution fMRI for a fine exploration of human primary motor hand area. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6989-92	0.9	1
35	Image Processing and Display. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2006 , 1, 17-86	3.9	1
34	Effective connectivity in subcortical visual structures in de novo Patients with Parkinson's Disease. <i>NeuroImage: Clinical</i> , 2021 , 33, 102906	5.3	1
33	A Human-Machine Cooperative Approach for Time Series Data Interpretation. <i>Lecture Notes in Computer Science</i> , 2007 , 3-12	0.9	1

32	Neural correlates of intra-saccadic motion perception. <i>Journal of Vision</i> , 2021 , 21, 19	0.4	1
31	Human/Computer Interaction to Learn Scenarios from ICU Multivariate Time Series. <i>Lecture Notes in Computer Science</i> , 2005 , 424-428	0.9	1
30	Traumatic Brain Lesion Quantification Based on Mean Diffusivity Changes. <i>Lecture Notes in Computer Science</i> , 2018 , 88-99	0.9	1
29	Linking Clinical Guidelines with Formal Representations. <i>Lecture Notes in Computer Science</i> , 2003 , 152-157.	0.9	1
28	A Multicenter Preclinical MRI Study: Definition of Rat Brain Relaxometry Reference Maps		1
27	Neural circuits for long-range color filling-in		1
26	Assessment of Tissue Injury in Severe Brain Trauma. <i>Lecture Notes in Computer Science</i> , 2016 , 57-68	0.9	1
25	Magnetic resonance imaging does not reveal structural alterations in the brain of synesthetes		1
24	A conditional random field approach for coupling local registration with robust tissue and structure segmentation. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 540-8	0.9	1
23	Dynamic Adaptation of Cooperative Agents for MRI Brain Scans Segmentation. <i>Lecture Notes in Computer Science</i> , 2001 , 349-358	0.9	1
22	A Multi-agent System for MRI Brain Segmentation. <i>Lecture Notes in Computer Science</i> , 1999 , 423-432	0.9	1
21	Détermination des aires visuelles rétinotopiques chez le sujet individuel à l'aide de l'IRM fonctionnelle. <i>Comptes Rendus Chimie</i> , 2004 , 7, 207-212	2.7	0
20	Closed-Loop Systems for Mechanical Ventilation 2003 , 348-359		
19	Systèmes automatisés en ventilation artificielle. <i>IRBM News</i> , 2005 , 26, 51-54		
18	High impedance mechanical ventilator for small animals: use of programmable controller. <i>Pflügers Archiv European Journal of Physiology</i> , 1992 , 420, 136-9	4.6	
17	The Ventilator of Tomorrow 2006 , 227-237		
16	Text Categorization prior to Indexing for the CISMEF Health Catalogue. <i>Lecture Notes in Computer Science</i> , 2003 , 81-85	0.9	
15	Statistical Shape Modeling of Unfolded Retinotopic Maps for a Visual Areas Probabilistic Atlas. <i>Lecture Notes in Computer Science</i> , 2003 , 705-713	0.9	

14	WoundCare: A Palm Pilot-Based Expert System for the Treatment of Pressure Ulcers. <i>Lecture Notes in Computer Science</i> , 2003 , 345-349	0.9
13	Speech Interfaces for Point-of-Care Guideline Systems. <i>Lecture Notes in Computer Science</i> , 2003 , 76-80	0.9
12	Learning Derived Words from Medical Corpora. <i>Lecture Notes in Computer Science</i> , 2003 , 189-198	0.9
11	Managing Theoretical Single-Disease Guideline Recommendations for Actual Multiple-Disease Patients. <i>Lecture Notes in Computer Science</i> , 2003 , 168-172	0.9
10	Combining Supervised and Unsupervised Methods to Support Early Diagnosis of Hepatocellular Carcinoma. <i>Lecture Notes in Computer Science</i> , 2003 , 239-243	0.9
9	Modeling Multimedia and Temporal Aspects of Semistructured Clinical Data. <i>Lecture Notes in Computer Science</i> , 2003 , 36-40	0.9
8	Robots as Models of the Brain: What Can We Learn from Modelling Rat Navigation and Infant Imitation Games?. <i>Lecture Notes in Computer Science</i> , 2003 , 377-385	0.9
7	Compliance with the Hyperlipidaemia Consensus: Clinicians versus the Computer. <i>Lecture Notes in Computer Science</i> , 2003 , 340-344	0.9
6	Linking Rules to Terminologies and Applications in Medical Planning. <i>Lecture Notes in Computer Science</i> , 2003 , 214-218	0.9
5	Patch vs. Global Image-Based Unsupervised Anomaly Detection in MR Brain Scans of Early Parkinsonian Patients. <i>Lecture Notes in Computer Science</i> , 2021 , 34-43	0.9
4	Pourquoi et comment favoriser le partage en neuro-imagerie?. <i>Annales Des Mines - Réalités Industrielles</i> , 2021 , Août 2021, 23-26	0.1
3	Automated Quantification of Brain Lesion Volume From Post-trauma MR Diffusion-Weighted Images.. <i>Frontiers in Neurology</i> , 2021 , 12, 740603	4.1
2	Subtle anomaly detection: Application to brain MRI analysis of de novo Parkinsonian patients.. <i>Artificial Intelligence in Medicine</i> , 2022 , 125, 102251	7.4
1	No Structural Differences Are Revealed by VBM in De NovoSParkinsonian Patients. <i>Studies in Health Technology and Informatics</i> , 2019 , 264, 268-272	0.5