

John Aldo Lee

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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.

99
papers

3,270
citations

30
h-index

55
g-index

107
ext. papers

3,908
ext. citations

3.8
avg, IF

5.39
L-index

#	Paper	IF	Citations
99	A gradient-based method for segmenting FDG-PET images: methodology and validation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007 , 34, 1427-38	8.8	328
98	Quality assessment of dimensionality reduction: Rank-based criteria. <i>Neurocomputing</i> , 2009 , 72, 1431-1443	5.4	162
97	Comparison of 12 deformable registration strategies in adaptive radiation therapy for the treatment of head and neck tumors. <i>Radiotherapy and Oncology</i> , 2008 , 89, 1-12	5.3	146
96	Adaptive radiotherapy of head and neck cancer. <i>Seminars in Radiation Oncology</i> , 2010 , 20, 84-93	5.5	128
95	Adaptive biological image-guided IMRT with anatomic and functional imaging in pharyngo-laryngeal tumors: impact on target volume delineation and dose distribution using helical tomotherapy. <i>Radiotherapy and Oncology</i> , 2007 , 85, 105-15	5.3	128
94	Gradient-based delineation of the primary GTV on FDG-PET in non-small cell lung cancer: a comparison with threshold-based approaches, CT and surgical specimens. <i>Radiotherapy and Oncology</i> , 2011 , 98, 117-25	5.3	127
93	Segmentation of positron emission tomography images: some recommendations for target delineation in radiation oncology. <i>Radiotherapy and Oncology</i> , 2010 , 96, 302-7	5.3	124
92	Classification and evaluation strategies of auto-segmentation approaches for PET: Report of AAPM task group No. 211. <i>Medical Physics</i> , 2017 , 44, e1-e42	4.4	122
91	Visual Interaction with Dimensionality Reduction: A Structured Literature Analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2017 , 23, 241-250	4	114
90	Nonlinear projection with curvilinear distances: Isomap versus curvilinear distance analysis. <i>Neurocomputing</i> , 2004 , 57, 49-76	5.4	112
89	Assessment by a deformable registration method of the volumetric and positional changes of target volumes and organs at risk in pharyngo-laryngeal tumors treated with concomitant chemo-radiation. <i>Radiotherapy and Oncology</i> , 2010 , 95, 209-17	5.3	86
88	A prospective clinical study of 18 F-FAZA PET-CT hypoxia imaging in head and neck squamous cell carcinoma before and during radiation therapy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014 , 41, 1544-52	8.8	85
87	Radiotherapy for head and neck tumours in 2012 and beyond: conformal, tailored, and adaptive?. <i>Lancet Oncology, The</i> , 2012 , 13, e292-300	21.7	77
86	What you see is what you can change: Human-centered machine learning by interactive visualization. <i>Neurocomputing</i> , 2017 , 268, 164-175	5.4	71
85	Comparative study with new accuracy metrics for target volume contouring in PET image guided radiation therapy. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 2006-24	11.7	66
84	Biological image-guided radiotherapy in rectal cancer: is there a role for FMISO or FLT, next to FDG?. <i>Acta Oncologica</i> , 2008 , 47, 1237-48	3.2	65
83	Adaptive functional image-guided IMRT in pharyngo-laryngeal squamous cell carcinoma: is the gain in dose distribution worth the effort?. <i>Radiotherapy and Oncology</i> , 2011 , 101, 343-50	5.3	61

82	Nonlinear dimensionality reduction of data manifolds with essential loops. <i>Neurocomputing</i> , 2005 , 67, 29-53	5-4	57
81	Type 1 and 2 mixtures of Kullback-Leibler divergences as cost functions in dimensionality reduction based on similarity preservation. <i>Neurocomputing</i> , 2013 , 112, 92-108	5-4	54
80	Fast multipurpose Monte Carlo simulation for proton therapy using multi- and many-core CPU architectures. <i>Medical Physics</i> , 2016 , 43, 1700	4-4	50
79	Scale-independent quality criteria for dimensionality reduction. <i>Pattern Recognition Letters</i> , 2010 , 31, 2248-2257	4-7	48
78	Self-organizing maps with recursive neighborhood adaptation. <i>Neural Networks</i> , 2002 , 15, 993-1003	9-1	45
77	The limitation of PET imaging for biological adaptive-IMRT assessed in animal models. <i>Radiotherapy and Oncology</i> , 2009 , 91, 101-6	5-3	44
76	Biological image-guided radiotherapy in rectal cancer: challenges and pitfalls. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 75, 782-90	4	43
75	Evaluation of motion mitigation using abdominal compression in the clinical implementation of pencil beam scanning proton therapy of liver tumors. <i>Medical Physics</i> , 2017 , 44, 703-712	4-4	39
74	Multi-scale similarities in stochastic neighbour embedding: Reducing dimensionality while preserving both local and global structure. <i>Neurocomputing</i> , 2015 , 169, 246-261	5-4	38
73	Hypoxia-guided adaptive radiation dose escalation in head and neck carcinoma: a planning study. <i>Acta Oncologica</i> , 2015 , 54, 1008-16	3-2	36
72	Is (18)F-FDG a surrogate tracer to measure tumor hypoxia? Comparison with the hypoxic tracer (14)C-EF3 in animal tumor models. <i>Radiotherapy and Oncology</i> , 2010 , 97, 183-8	5-3	35
71	PET/CT (and CT) instrumentation, image reconstruction and data transfer for radiotherapy planning. <i>Radiotherapy and Oncology</i> , 2010 , 96, 288-97	5-3	35
70	Semiautomatic methods for segmentation of the proliferative tumour volume on sequential FLT PET/CT images in head and neck carcinomas and their relation to clinical outcome. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014 , 41, 915-24	8-8	30
69	Toward a standard for the evaluation of PET-Auto-Segmentation methods following the recommendations of AAPM task group No. 211: Requirements and implementation. <i>Medical Physics</i> , 2017 , 44, 4098-4111	4-4	28
68	Assessment of tumor motion reproducibility with audio-visual coaching through successive 4D CT sessions. <i>Journal of Applied Clinical Medical Physics</i> , 2014 , 15, 4332	2-3	28
67	Tumor delineation based on time-activity curve differences assessed with dynamic fluorodeoxyglucose positron emission tomography-computed tomography in rectal cancer patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009 , 73, 456-65	4	28
66	Validation of the mid-position strategy for lung tumors in helical TomoTherapy. <i>Radiotherapy and Oncology</i> , 2014 , 110, 529-37	5-3	26
65	Molecular Imaging-Guided Radiotherapy for the Treatment of Head-and-Neck Squamous Cell Carcinoma: Does it Fulfill the Promises?. <i>Seminars in Radiation Oncology</i> , 2018 , 28, 35-45	5-5	26

64	Artificial intelligence and machine learning for medical imaging: A technology review. <i>Physica Medica</i> , 2021 , 83, 242-256	2.7	25
63	Reprogramming of tumor metabolism by targeting mitochondria improves tumor response to irradiation. <i>Acta Oncologica</i> , 2015 , 54, 266-74	3.2	24
62	Evaluation of MVCT protocols for brain and head and neck tumor patients treated with helical tomotherapy. <i>Radiotherapy and Oncology</i> , 2009 , 93, 50-6	5.3	23
61	Edge-preserving filtering of images with low photon counts. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2008 , 30, 1014-27	13.3	22
60	Helical tomotherapy for SIB and hypo-fractionated treatments in lung carcinomas: a 4D Monte Carlo treatment planning study. <i>Radiotherapy and Oncology</i> , 2012 , 104, 173-80	5.3	21
59	A minimum-range approach to blind extraction of bounded sources. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 809-22		21
58	Methodology for adaptive and robust FDG-PET escalated dose painting by numbers in head and neck tumors. <i>Acta Oncologica</i> , 2016 , 55, 217-25	3.2	20
57	Combining multiple FDG-PET radiotherapy target segmentation methods to reduce the effect of variable performance of individual segmentation methods. <i>Medical Physics</i> , 2013 , 40, 042501	4.4	19
56	2014 ,		17
55	Immobilization device for in vivo and in vitro multimodality image registration of rodent tumors. <i>Radiotherapy and Oncology</i> , 2008 , 87, 147-51	5.3	16
54	Evolution of [F]fluorodeoxyglucose and [F]fluoroazomycin arabinoside PET uptake distributions in lung tumours during radiation therapy. <i>Acta Oncologica</i> , 2017 , 56, 516-524	3.2	15
53	Unfolding preprocessing for meaningful time series clustering. <i>Neural Networks</i> , 2006 , 19, 877-88	9.1	15
52	Short Review of Dimensionality Reduction Methods Based on Stochastic Neighbour Embedding. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 65-74	0.4	15
51	Trapping of carvacrol by konjac glucomannan-potato starch gels: Stability from macroscopic to microscopic scale, using image processing. <i>Food Hydrocolloids</i> , 2017 , 66, 216-226	10.6	14
50	Technical Note: Monte Carlo methods to comprehensively evaluate the robustness of 4D treatments in proton therapy. <i>Medical Physics</i> , 2019 , 46, 4676-4684	4.4	14
49	Generation of prescriptions robust against geometric uncertainties in dose painting by numbers. <i>Acta Oncologica</i> , 2015 , 54, 253-60	3.2	13
48	Patient-specific bolus for range shifter air gap reduction in intensity-modulated proton therapy of head-and-neck cancer studied with Monte Carlo based plan optimization. <i>Radiotherapy and Oncology</i> , 2018 , 128, 161-166	5.3	13
47	Correlation analysis of [F]fluorodeoxyglucose and [F]fluoroazomycin arabinoside uptake distributions in lung tumours during radiation therapy. <i>Acta Oncologica</i> , 2017 , 56, 1181-1188	3.2	13

46	Towards fast and robust 4D optimization for moving tumors with scanned proton therapy. <i>Medical Physics</i> , 2019 , 46, 5434-5443	4.4	12
45	FDG PET/CT for rectal carcinoma radiotherapy treatment planning: comparison of functional volume delineation algorithms and clinical challenges. <i>Journal of Applied Clinical Medical Physics</i> , 2014 , 15, 4696	2.3	12
44	An individualized radiation dose escalation trial in non-small cell lung cancer based on FDG-PET imaging. <i>Strahlentherapie Und Onkologie</i> , 2017 , 193, 812-822	4.3	12
43	Two key properties of dimensionality reduction methods 2014 ,		12
42	Unsupervised dimensionality reduction: Overview and recent advances 2010 ,		12
41	Evaluation of the radiobiological impact of anatomic modifications during radiation therapy for head and neck cancer: can we simply summate the dose?. <i>Radiotherapy and Oncology</i> , 2010 , 96, 131-8	5.3	12
40	Performance of a hybrid Monte Carlo-Pencil Beam dose algorithm for proton therapy inverse planning. <i>Medical Physics</i> , 2018 , 45, 846-862	4.4	12
39	Shift-invariant similarities circumvent distance concentration in stochastic neighbor embedding and variants. <i>Procedia Computer Science</i> , 2011 , 4, 538-547	1.6	11
38	Radiation dose escalation based on FDG-PET driven dose painting by numbers in oropharyngeal squamous cell carcinoma: a dosimetric comparison between TomoTherapy-HA and RapidArc. <i>Radiation Oncology</i> , 2017 , 12, 59	4.2	10
37	Forecasting the CATS benchmark with the Double Vector Quantization method. <i>Neurocomputing</i> , 2007 , 70, 2400-2409	5.4	10
36	Consistency in quality correction factors for ionization chamber dosimetry in scanned proton beam therapy. <i>Medical Physics</i> , 2017 , 44, 4919-4927	4.4	9
35	Multi-organ Segmentation of Chest CT Images in Radiation Oncology: Comparison of Standard and Dilated UNet. <i>Lecture Notes in Computer Science</i> , 2018 , 188-199	0.9	9
34	Nonlinear Dimensionality Reduction With Missing Data Using Parametric Multiple Imputations. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 1166-1179	10.3	9
33	Effect of high hydrostatic pressure on extraction of B-phycoerythrin from <i>Porphyridium cruentum</i> : Use of confocal microscopy and image processing. <i>Algal Research</i> , 2019 , 38, 101394	5	9
32	Mitigating inherent noise in Monte Carlo dose distributions using dilated U-Net. <i>Medical Physics</i> , 2019 , 46, 5790-5798	4.4	8
31	Deep learning dose prediction for IMRT of esophageal cancer: The effect of data quality and quantity on model performance. <i>Physica Medica</i> , 2021 , 83, 52-63	2.7	8
30	Nonlinear Projection with the Isotop Method. <i>Lecture Notes in Computer Science</i> , 2002 , 933-938	0.9	8
29	Improving projection-based data analysis by feature space transformations 2013 ,		6

28	Mode estimation in high-dimensional spaces with flat-top kernels: Application to image denoising. <i>Neurocomputing</i> , 2011 , 74, 1402-1410	5.4	6
27	A principled approach to image denoising with similarity kernels involving patches. <i>Neurocomputing</i> , 2010 , 73, 1199-1209	5.4	6
26	Domain adversarial networks and intensity-based data augmentation for male pelvic organ segmentation in cone beam CT. <i>Computers in Biology and Medicine</i> , 2021 , 131, 104269	7	6
25	Nonlinear Dimensionality Reduction for Visualization. <i>Lecture Notes in Computer Science</i> , 2013 , 617-622	0.9	5
24	Variance stabilizing transformations in patch-based bilateral filters for poisson noise image denoising. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 3673-6	0.9	4
23	A Least Absolute Bound Approach to ICA - Application to the MLSP 2006 Competition. <i>IEEE International Workshop on Machine Learning for Signal Processing</i> , 2006 ,		4
22	On the Role and Impact of the Metaparameters in t-distributed Stochastic Neighbor Embedding 2010 , 337-346		4
21	A noise correction of the χ^2 Index method for Monte Carlo dose distribution comparison. <i>Medical Physics</i> , 2020 , 47, 681-692	4.4	4
20	Cross-Domain Data Augmentation for Deep-Learning-Based Male Pelvic Organ Segmentation in Cone Beam CT. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1154	2.6	3
19	Comparing dynamics of fluency and inter-limb coordination in climbing activities using multi-scale Jensen-Shannon embedding and clustering. <i>Data Mining and Knowledge Discovery</i> , 2017 , 31, 1758-1792	5.6	3
18	Incremental classification of objects in scenes: Application to the delineation of images. <i>Neurocomputing</i> , 2015 , 152, 45-57	5.4	3
17	Dimensionality reduction by rank preservation 2010 ,		3
16	Fast Multiscale Neighbor Embedding. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , PP,	10.3	3
15	Multi-step-ahead forecasting using kernel adaptive filtering 2016 ,		2
14	Mechanically-assisted and non-invasive ventilation for radiation therapy: A safe technique to regularize and modulate internal tumour motion. <i>Radiotherapy and Oncology</i> , 2019 , 141, 283-291	5.3	2
13	Impact of motion induced artifacts on automatic registration of lung tumors in Tomotherapy. <i>Physica Medica</i> , 2015 , 31, 963-968	2.7	2
12	Blind source separation based on endpoint estimation with application to the MLSP 2006 data competition. <i>Neurocomputing</i> , 2008 , 72, 47-56	5.4	2
11	Non-linear ICA by Using Isometric Dimensionality Reduction. <i>Lecture Notes in Computer Science</i> , 2004 , 710-717	0.9	2

10	Filtering-Free Blind Separation of Correlated Images. <i>Lecture Notes in Computer Science</i> , 2005 , 1091-1099.	0.9	2
9	Semantic segmentation of computed tomography for radiotherapy with deep learning: compensating insufficient annotation quality using contour augmentation 2019 ,		2
8	Simbed: Similarity-Based Embedding. <i>Lecture Notes in Computer Science</i> , 2009 , 95-104	0.9	2
7	Accelerated robust optimization algorithm for proton therapy treatment planning. <i>Medical Physics</i> , 2020 , 47, 2746-2754	4.4	1
6	Post-reconstruction deconvolution of PET images by total generalized variation regularization 2015 ,		1
5	Influence of filter choice on 18F-FDG PET segmentation accuracy determined using generalized estimating equations. <i>Physics in Medicine and Biology</i> , 2013 , 58, 3517-34	3.8	1
4	Incorporation of tumor motion directionality in margin recipe: The directional MidP strategy. <i>Physica Medica</i> , 2021 , 91, 43-53	2.7	1
3	Denoising proton therapy Monte Carlo dose distributions in multiple tumor sites: A comparative neural networks architecture study. <i>Physica Medica</i> , 2021 , 89, 93-103	2.7	1
2	Segmentation with Incremental Classifiers. <i>Lecture Notes in Computer Science</i> , 2013 , 81-90	0.9	
1	Tuning Database-Friendly Random Projection Matrices for Improved Distance Preservation on Specific Data. <i>Applied Intelligence</i> , 1	4.9	