Oleg S Pianykh

List of Publications by Year
in descending order

52 papers	1,362 citations	706676 14 h-index	425179 34 g-index
63 all docs	63 docs citations	63 times ranked	2044 citing authors

#	Article	IF	Citations
1	Evaluation of the Aggregated Time Savings in Adopting Fast Brain MRI Techniques for Outpatient Brain MRI. Academic Radiology, 2023, 30, 341-348.	1.3	5
2	An alternative to the black box: Strategy learning. PLoS ONE, 2022, 17, e0264485.	1.1	2
3	Characterization of Pediatric Imaging Trends and Likelihood of Exam Cancellation in the COVID-19 Pandemic. Academic Radiology, 2022, 29, 508-513.	1.3	1
4	Dynamic memory to alleviate catastrophic forgetting in continual learning with medical imaging. Nature Communications, 2021, 12, 5678.	5.8	28
5	Optimization of Radiology Workflow with Artificial Intelligence. Radiologic Clinics of North America, 2021, 59, 955-966.	0.9	27
6	Ars Longa, Vita Brevis. , 2021, , 219-232.		0
7	Image Delivery. , 2021, , 169-181.		0
8	Continuous Learning AI in Radiology: Implementation Principles and Early Applications. Radiology, 2020, 297, 6-14.	3.6	92
9	COVID-19: Recovery Models for Radiology Departments. Journal of the American College of Radiology, 2020, 17, 1460-1468.	0.9	12
10	Imaging Volume Trends and Recovery During the COVID-19 Pandemic: A Comparative Analysis Between a Large Urban Academic Hospital and Its Affiliated Imaging Centers. Academic Radiology, 2020, 27, 1353-1362.	1.3	35
11	Improving healthcare operations management with machine learning. Nature Machine Intelligence, 2020, 2, 266-273.	8.3	33
12	Modeling workflows: Identifying the most predictive features in healthcare operational processes. PLoS ONE, 2020, 15, e0233810.	1.1	1
13	Dynamic Memory to Alleviate Catastrophic Forgetting in Continuous Learning Settings. Lecture Notes in Computer Science, 2020, , 359-368.	1.0	9
14	Machine Learning for Predicting Patient Wait Times and Appointment Delays. Journal of the American College of Radiology, 2018, 15, 1310-1316.	0.9	62
15	Modeling Human Perception of Image Quality. Journal of Digital Imaging, 2018, 31, 768-775.	1.6	2
16	Current Applications and Future Impact of Machine Learning in Radiology. Radiology, 2018, 288, 318-328.	3.6	541
17	Patient Feedback on Waiting Time Displays. American Journal of Medical Quality, 2017, 32, 108-108.	0.2	7
18	Socioeconomic and Demographic Predictors of Missed Opportunities to Provide Advanced Imaging Services. Journal of the American College of Radiology, 2017, 14, 1403-1411.	0.9	71

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19	Text Message Reminders Reduce Outpatient Radiology No-Shows But Do Not Improve Arrival Punctuality. Journal of the American College of Radiology, 2017, 14, 1049-1054.	0.9	21
20	Improving Radiology Workflow with Automated Examination Tracking andÂAlerts. Journal of the American College of Radiology, 2017, 14, 937-943.	0.9	4
21	Predicting No-Shows in Radiology Using Regression Modeling of Data Available in the Electronic Medical Record. Journal of the American College of Radiology, 2017, 14, 1303-1309.	0.9	71
22	Determining Waiting Room Occupancy at an Outpatient Clinic Using Simulated Observations andÂProbability-Duration Curves. Journal of the American College of Radiology, 2016, 13, 620-627.e2.	0.9	4
23	How Secure Is Your Radiology Department? Mapping Digital Radiology Adoption and Security Worldwide. American Journal of Roentgenology, 2016, 206, 797-804.	1.0	19
24	Radiation Dose Consideration in Kidney Stone CT Examinations: Integration of Iterative Reconstruction Algorithms With Routine Clinical Practice. American Journal of Roentgenology, 2015, 204, 1055-1063.	1.0	14
25	Losing Images in Digital Radiology: More than You Think. Journal of Digital Imaging, 2015, 28, 264-271.	1.6	10
26	Can We Predict Patient Wait Time?. Journal of the American College of Radiology, 2015, 12, 1058-1066.	0.9	15
27	Coronary CTA using scout-based automated tube potential and current selection algorithm, with breast displacement results in lower radiation exposure in females compared to males. Cardiovascular Diagnosis and Therapy, 2014, 4, 470-9.	0.7	13
28	Image Compression. Understanding Medical Informatics, 2014, , 33-55.	0.0	0
29	Digital Perfusion Phantoms for Visual Perfusion Validation. American Journal of Roentgenology, 2012, 199, 627-634.	1.0	3
30	Finitely-Supported ${m L}_2$-Optimal Kernels for Digital Signal Interpolation. IEEE Transactions on Signal Processing, 2012, 60, 494-498.	3.2	2
31	Perfusion linearity and its applications in perfusion algorithm analysis. Computerized Medical Imaging and Graphics, 2012, 36, 204-214.	3.5	4
32	Digital Imaging and Communications in Medicine (DICOM). , 2012, , .		116
33	Body Tumor CT Perfusion Protocols: Optimization of Acquisition Scan Parameters in a Rat Tumor Model. Radiology, 2009, 251, 712-720.	3.6	7
34	Dose Reduction in Computed Tomographic Angiography of Pregnant Patients With Suspected Acute Pulmonary Embolism. Journal of Computer Assisted Tomography, 2009, 33, 961-966.	0.5	56
35	Contrast enhancement of medical images using multiscale decomposition. , 2006, 6057, 168.		1
36	Analytically tractable case of fuzzy c-means clustering. Pattern Recognition, 2006, 39, 35-46.	5.1	16

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37	The fast automatic algorithm for correction of MR bias field. Journal of Magnetic Resonance Imaging, 2006, 24, 891-900.	1.9	9
38	Applying multiresolution methods to medical image enhancement. , 2006, , .		4
39	A conclusive methodology for rating OCR performance. Journal of the Association for Information Science and Technology, 2005, 56, 1274-1287.	2.6	0
40	Compression ratio boundaries for predictive signal compression. IEEE Transactions on Image Processing, 2001, 10, 323-326.	6.0	2
41	<title>Integer wavelet transformations with predictive coding improves 3D similar image set compression</title>. , 2001, 4391, 238.		3
42	<title>Prediction of medical images using wavelets</title>. , 2000, , .		0
43	<title>Diagnostically lossless medical image compression via wavelet-based background noise removal</title>. , 2000, , .		2
44	A fast and accurate method to register medical images using Wavelet Modulus Maxima. Pattern Recognition Letters, 2000, 21, 447-462.	2.6	22
45	<title>Construction of optimal wavelet basis for medical images</title>. , 1999, 3723, 163.		0
46	Improved Monte Carlo form factor integration. Computers and Graphics, 1998, 22, 723-734.	1.4	6
47	<title>Registration and restoration of objects in images subjected to shear using wavelets</title>. , 1998, , .		0
48	<title>Parallel methods for similar image compression and classification with common models</title>. , 1998, , .		1
49	<title>Compressing data sets of similar images with autoregressive models</title>. , 1998, 3389, 49.		0
50	<title>Autoregressive models for compressing similar data</title>. , 1998, , .		0
51	<title>Wavelet-based registration and compression of sets of images</title>. , 1997, 3078, 497.		5
52	<title>Registration and set compression of images using wavelet modulus maxima on massively parallel machines</title>. , 1997, 3164, 221.		0