

# Jonathan Gryak

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4849668/publications.pdf>

Version: 2024-02-01

59  
papers

519  
citations

840776

11  
h-index

888059

17  
g-index

62  
all docs

62  
docs citations

62  
times ranked

489  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully automated endoscopic disease activity assessment in ulcerative colitis. <i>Gastrointestinal Endoscopy</i> , 2021, 93, 728-736.e1.	1.0	64
2	A hierarchical expert-guided machine learning framework for clinical decision support systems: an application to traumatic brain injury prognostication. <i>Npj Digital Medicine</i> , 2021, 4, 78.	10.9	25
3	Robust segmentation of lung in chest x-ray: applications in analysis of acute respiratory distress syndrome. <i>BMC Medical Imaging</i> , 2020, 20, 116.	2.7	24
4	Automated hematoma segmentation and outcome prediction for patients with traumatic brain injury. <i>Artificial Intelligence in Medicine</i> , 2020, 107, 101910.	6.5	24
5	Signal quality measure for pulsatile physiological signals using morphological features: Applications in reliability measure for pulse oximetry. <i>Informatics in Medicine Unlocked</i> , 2019, 16, 100222.	3.4	23
6	Automated Segmentation and Severity Analysis of Subdural Hematoma for Patients with Traumatic Brain Injuries. <i>Diagnostics</i> , 2020, 10, 773.	2.6	22
7	Utilization of smartphone and tablet camera photographs to predict healing of diabetes-related foot ulcers. <i>Computers in Biology and Medicine</i> , 2020, 126, 104042.	7.0	20
8	Diabetic Wound Segmentation using Convolutional Neural Networks. , 2019, 2019, 1002-1005.		19
9	Clinical decision support systems in orthodontics: A narrative review of data science approaches. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 26-36.	2.8	16
10	Decision Support Systems in Temporomandibular Joint Osteoarthritis: A review of Data Science and Artificial Intelligence Applications. <i>Seminars in Orthodontics</i> , 2021, 27, 78-86.	1.4	16
11	Vessel segmentation for X-ray coronary angiography using ensemble methods with deep learning and filter-based features. <i>BMC Medical Imaging</i> , 2022, 22, 10.	2.7	14
12	Learning Using Concave and Convex Kernels: Applications in Predicting Quality of Sleep and Level of Fatigue in Fibromyalgia. <i>Entropy</i> , 2019, 21, 442.	2.2	13
13	Osteosarcoma Patients Classification Using Plain X-Rays and Metabolomic Data. , 2018, 2018, 690-693.		12
14	Noise Detection in Electrocardiography Signal for Robust Heart Rate Variability Analysis: A Deep Learning Approach. , 2018, 2018, 5632-5635.		12
15	Automated Detection of Non-Informative Frames for Colonoscopy Through a Combination of Deep Learning and Feature Extraction. , 2019, 2019, 2402-2406.		12
16	Multimodal tensor-based method for integrative and continuous patient monitoring during postoperative cardiac care. <i>Artificial Intelligence in Medicine</i> , 2021, 113, 102032.	6.5	12
17	Learning Using Partially Available Privileged Information and Label Uncertainty: Application in Detection of Acute Respiratory Distress Syndrome. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 784-796.	6.3	11
18	Motion-based camera localization system in colonoscopy videos. <i>Medical Image Analysis</i> , 2021, 73, 102180.	11.6	11

#	ARTICLE	IF	CITATIONS
19	The status of polycyclic group-based cryptography: A survey and open problems. <i>Groups, Complexity, Cryptology</i> , 2016, 8, .	0.3	10
20	A deep learning framework for automated detection and quantitative assessment of liver trauma. <i>BMC Medical Imaging</i> , 2022, 22, 39.	2.7	10
21	Automated detection of acute respiratory distress syndrome from chest X-Rays using Directionality Measure and deep learning features. <i>Computers in Biology and Medicine</i> , 2021, 134, 104463.	7.0	9
22	Patient Specific Classification of Dental Root Canal and Crown Shape. <i>Lecture Notes in Computer Science</i> , 2020, 12474, 145-153.	1.3	9
23	Filter-Pruned 3D Convolutional Neural Network for Drowsiness Detection. , 2018, 2018, 1258-1262.		8
24	Automated Optic Nerve Sheath Diameter Measurement Using Super-pixel Analysis. , 2019, 2019, 2793-2796.		8
25	3D Auto-Segmentation of Mandibular Condyles. , 2020, 2020, 1270-1273.		8
26	Automated Kidney Segmentation for Traumatic Injured Patients through Ensemble Learning and Active Contour Modeling. , 2018, 2018, 3418-3421.		7
27	Comparative Study on Heart Rate Variability Analysis for Atrial Fibrillation Detection in Short Single-Lead ECG Recordings. , 2018, 2018, 526-529.		7
28	A Novel Atrial Fibrillation Prediction Algorithm Applicable to Recordings from Portable Devices. , 2018, 2018, 4034-4037.		6
29	Automated Classification of Osteosarcoma and Benign Tumors using RNA-seq and Plain X-ray. , 2020, 2020, 1165-1168.		6
30	Fully Automated Spleen Localization And Segmentation Using Machine Learning And 3D Active Contours. , 2018, 2018, 53-56.		5
31	Solving the Conjugacy Decision Problem via Machine Learning. <i>Experimental Mathematics</i> , 2020, 29, 66-78.	0.7	5
32	Prediction of cardiac arrhythmia using deterministic probabilistic finite-state automata. <i>Biomedical Signal Processing and Control</i> , 2021, 63, 102200.	5.7	5
33	Novel Algorithm for Automated Optic Nerve Sheath Diameter Measurement Using a Clustering Approach. <i>Military Medicine</i> , 2021, 186, 496-501.	0.8	5
34	Web infrastructure for data management, storage and computation. , 2021, 11600, .		5
35	Automated Spleen Injury Detection Using 3D Active Contours and Machine Learning. <i>Entropy</i> , 2021, 23, 382.	2.2	5
36	Automatic Segmentation of Mandibular Ramus and Condyles. , 2021, 2021, 2952-2955.		5

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37	Temporomandibular Joint Osteoarthritis Diagnosis Using Privileged Learning of Protein Markers. , 2021, 2021, 1810-1813.		5
38	Association between symptoms, affect and heart rhythm in patients with persistent or paroxysmal atrial fibrillation: an ambulatory pilot study. American Heart Journal, 2021, 241, 1-5.	2.7	4
39	Merging and Annotating Teeth and Roots from Automated Segmentation of Multimodal Images. Lecture Notes in Computer Science, 2021, , 81-92.	1.3	4
40	Automatic Segmentation of Dental Root Canal and Merging with Crown Shape. , 2021, 2021, 2948-2951.		4
41	Automatic Midline Shift Detection in Traumatic Brain Injury. , 2018, 2018, 131-134.		3
42	Brain Hematoma Segmentation Using Active Learning and an Active Contour Model. Lecture Notes in Computer Science, 2019, , 385-396.	1.3	3
43	An Unsupervised Feature Learning Approach to Reduce False Alarm Rate in ICUs. , 2019, 2019, 349-353.		3
44	Detection of Acute Respiratory Distress Syndrome by Incorporation of Label Uncertainty and Partially Available Privileged Information. , 2019, 2019, 1717-1720.		3
45	Prediction of postoperative cardiac events in multiple surgical cohorts using a multimodal and integrative decision support system. Scientific Reports, 2022, 12, .	3.3	3
46	Supraventricular Tachycardia Detection via Machine Learning Algorithms. , 2018, , .		2
47	ON THE CONJUGACY PROBLEM IN CERTAIN METABELIAN GROUPS. Glasgow Mathematical Journal, 2019, 61, 251-269.	0.3	2
48	Medical Diagnostics Based on Encrypted Medical Data. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 98-111.	0.3	2
49	Classifying Osteosarcoma Using Meta-Analysis of Gene Expression. , 2018, , .		1
50	Hematoma Segmentation Using Dilated Convolutional Neural Network. , 2018, 2018, 5902-5905.		1
51	Markov Models for Detection of Ventricular Arrhythmia. , 2019, 2019, 1488-1491.		1
52	Using a Fuzzy Neural Network in Clinical Decision Support for Patients with Advanced Heart Failure. , 2019, , .		1
53	Midline Shift vs. Mid-Surface Shift: Correlation with Outcome of Traumatic Brain Injuries. , 2019, 2019, 1083-1086.		1
54	Predicting Poor Sleep Quality in Fibromyalgia with Wrist Sensors. , 2020, 2020, 4290-4293.		1

#	ARTICLE	IF	CITATIONS
55	Algebraic Methods for Tensor Data. SIAM Journal on Applied Algebra and Geometry, 2021, 5, 1-27.	1.4	1
56	Predicting atrial fibrillation episodes with rapid ventricular rates associated with low levels of activity. BMC Medical Informatics and Decision Making, 2021, 21, 364.	3.0	1
57	Feature Selection for Privileged Modalities in Disease Classification. Lecture Notes in Computer Science, 2021, , 69-80.	1.3	0
58	Artificial Intelligence Methodologies in Dentistry. , 2022, , 223-236.		0
59	A Combination of Dilated Adversarial Convolutional Neural Network and Guided Active Contour Model for Left Ventricle Segmentation. , 2022, , 103-129.		0