

Jonathan Gryak

List of Publications by Year in descending order

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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	Vessel segmentation for X-ray coronary angiography using ensemble methods with deep learning and filter-based features. BMC Medical Imaging, 2022, 22, 10.	2.7	14
2	Artificial Intelligence Methodologies in Dentistry. , 2022, , 223-236.		0
3	A Combination of Dilated Adversarial Convolutional Neural Network and Guided Active Contour Model for Left Ventricle Segmentation. , 2022, , 103-129.		0
4	A deep learning framework for automated detection and quantitative assessment of liver trauma. BMC Medical Imaging, 2022, 22, 39.	2.7	10
5	Prediction of postoperative cardiac events in multiple surgical cohorts using a multimodal and integrative decision support system. Scientific Reports, 2022, 12, .	3.3	3
6	Fully automated endoscopic disease activity assessment in ulcerative colitis. Gastrointestinal Endoscopy, 2021, 93, 728-736.e1.	1.0	64
7	Learning Using Partially Available Privileged Information and Label Uncertainty: Application in Detection of Acute Respiratory Distress Syndrome. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 784-796.	6.3	11
8	Prediction of cardiac arrhythmia using deterministic probabilistic finite-state automata. Biomedical Signal Processing and Control, 2021, 63, 102200.	5.7	5
9	Novel Algorithm for Automated Optic Nerve Sheath Diameter Measurement Using a Clustering Approach. Military Medicine, 2021, 186, 496-501.	0.8	5
10	Web infrastructure for data management, storage and computation. , 2021, 11600, .		5
11	Multimodal tensor-based method for integrative and continuous patient monitoring during postoperative cardiac care. Artificial Intelligence in Medicine, 2021, 113, 102032.	6.5	12
12	Automated Spleen Injury Detection Using 3D Active Contours and Machine Learning. Entropy, 2021, 23, 382.	2.2	5
13	Clinical decision support systems in orthodontics: A narrative review of data science approaches. Orthodontics and Craniofacial Research, 2021, 24, 26-36.	2.8	16
14	A hierarchical expert-guided machine learning framework for clinical decision support systems: an application to traumatic brain injury prognostication. Npj Digital Medicine, 2021, 4, 78.	10.9	25
15	Decision Support Systems in Temporomandibular Joint Osteoarthritis: A review of Data Science and Artificial Intelligence Applications. Seminars in Orthodontics, 2021, 27, 78-86.	1.4	16
16	Automated detection of acute respiratory distress syndrome from chest X-Rays using Directionality Measure and deep learning features. Computers in Biology and Medicine, 2021, 134, 104463.	7.0	9
17	Motion-based camera localization system in colonoscopy videos. Medical Image Analysis, 2021, 73, 102180.	11.6	11
18	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

#	ARTICLE	IF	CITATIONS
19	Algebraic Methods for Tensor Data. SIAM Journal on Applied Algebra and Geometry, 2021, 5, 1-27.	1.4	1
20	Feature Selection for Privileged Modalities in Disease Classification. Lecture Notes in Computer Science, 2021, , 69-80.	1.3	0
21	Merging and Annotating Teeth and Roots from Automated Segmentation of Multimodal Images. Lecture Notes in Computer Science, 2021, , 81-92.	1.3	4
22	Automatic Segmentation of Mandibular Ramus and Condyles. , 2021, 2021, 2952-2955.		5
23	Temporomandibular Joint Osteoarthritis Diagnosis Using Privileged Learning of Protein Markers. , 2021, 2021, 1810-1813.		5
24	Automatic Segmentation of Dental Root Canal and Merging with Crown Shape. , 2021, 2021, 2948-2951.		4
25	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
26	Solving the Conjugacy Decision Problem via Machine Learning. Experimental Mathematics, 2020, 29, 66-78.	0.7	5
27	Automated Segmentation and Severity Analysis of Subdural Hematoma for Patients with Traumatic Brain Injuries. Diagnostics, 2020, 10, 773.	2.6	22
28	Utilization of smartphone and tablet camera photographs to predict healing of diabetes-related foot ulcers. Computers in Biology and Medicine, 2020, 126, 104042.	7.0	20
29	Predicting Poor Sleep Quality in Fibromyalgia with Wrist Sensors. , 2020, 2020, 4290-4293.		1
30	3D Auto-Segmentation of Mandibular Condyles. , 2020, 2020, 1270-1273.		8
31	Robust segmentation of lung in chest x-ray: applications in analysis of acute respiratory distress syndrome. BMC Medical Imaging, 2020, 20, 116.	2.7	24
32	Automated hematoma segmentation and outcome prediction for patients with traumatic brain injury. Artificial Intelligence in Medicine, 2020, 107, 101910.	6.5	24
33	Patient Specific Classification of Dental Root Canal and Crown Shape. Lecture Notes in Computer Science, 2020, 12474, 145-153.	1.3	9
34	Automated Classification of Osteosarcoma and Benign Tumors using RNA-seq and Plain X-ray. , 2020, 2020, 1165-1168.		6
35	Markov Models for Detection of Ventricular Arrhythmia. , 2019, 2019, 1488-1491.		1
36	Signal quality measure for pulsatile physiological signals using morphological features: Applications in reliability measure for pulse oximetry. Informatics in Medicine Unlocked, 2019, 16, 100222.	3.4	23

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37	Brain Hematoma Segmentation Using Active Learning and an Active Contour Model. Lecture Notes in Computer Science, 2019, , 385-396.	1.3	3
38	Learning Using Concave and Convex Kernels: Applications in Predicting Quality of Sleep and Level of Fatigue in Fibromyalgia. Entropy, 2019, 21, 442.	2.2	13
39	Using a Fuzzy Neural Network in Clinical Decision Support for Patients with Advanced Heart Failure. , 2019, , .		1
40	Midline Shift vs. Mid-Surface Shift: Correlation with Outcome of Traumatic Brain Injuries. , 2019, 2019, 1083-1086.		1
41	An Unsupervised Feature Learning Approach to Reduce False Alarm Rate in ICUs. , 2019, 2019, 349-353.		3
42	Diabetic Wound Segmentation using Convolutional Neural Networks. , 2019, 2019, 1002-1005.		19
43	Automated Detection of Non-Informative Frames for Colonoscopy Through a Combination of Deep Learning and Feature Extraction. , 2019, 2019, 2402-2406.		12
44	Automated Optic Nerve Sheath Diameter Measurement Using Super-pixel Analysis. , 2019, 2019, 2793-2796.		8
45	Detection of Acute Respiratory Distress Syndrome by Incorporation of Label Uncertainty and Partially Available Privileged Information. , 2019, 2019, 1717-1720.		3
46	ON THE CONJUGACY PROBLEM IN CERTAIN METABELIAN GROUPS. Glasgow Mathematical Journal, 2019, 61, 251-269.	0.3	2
47	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
48	Supraventricular Tachycardia Detection via Machine Learning Algorithms. , 2018, , .		2
49	Automated Kidney Segmentation for Traumatic Injured Patients through Ensemble Learning and Active Contour Modeling. , 2018, 2018, 3418-3421.		7
50	Classifying Osteosarcoma Using Meta-Analysis of Gene Expression. , 2018, , .		1
51	Comparative Study on Heart Rate Variability Analysis for Atrial Fibrillation Detection in Short Single-Lead ECG Recordings. , 2018, 2018, 526-529.		7
52	Fully Automated Spleen Localization And Segmentation Using Machine Learning And 3D Active Contours. , 2018, 2018, 53-56.		5
53	Osteosarcoma Patients Classification Using Plain X-Rays and Metabolomic Data. , 2018, 2018, 690-693.		12
54	Hematoma Segmentation Using Dilated Convolutional Neural Network. , 2018, 2018, 5902-5905.		1

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55	Filter-Pruned 3D Convolutional Neural Network for Drowsiness Detection. , 2018, 2018, 1258-1262.		8
56	A Novel Atrial Fibrillation Prediction Algorithm Applicable to Recordings from Portable Devices. , 2018, 2018, 4034-4037.		6
57	Automatic Midline Shift Detection in Traumatic Brain Injury. , 2018, 2018, 131-134.		3
58	Noise Detection in Electrocardiography Signal for Robust Heart Rate Variability Analysis: A Deep Learning Approach. , 2018, 2018, 5632-5635.		12
59	The status of polycyclic group-based cryptography: A survey and open problems. Groups, Complexity, Cryptology, 2016, 8, .	0.3	10