

Elena Casiraghi

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,966
citations

430874

18
h-index

265206

42
g-index

73
all docs

73
docs citations

73
times ranked

2283
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Digital Twin: Definitions, Characteristics, Applications, and Design Implications. IEEE Access, 2019, 7, 167653-167671.	4.2	616
2	Tumor-derived microRNAs induce myeloid suppressor cells and predict immunotherapy resistance in melanoma. Journal of Clinical Investigation, 2018, 128, 5505-5516.	8.2	193
3	Liver segmentation from computed tomography scans: A survey and a new algorithm. Artificial Intelligence in Medicine, 2009, 45, 185-196.	6.5	157
4	Human Digital Twin for Fitness Management. IEEE Access, 2020, 8, 26637-26664.	4.2	116
5	A Fully Automated Method for Lung Nodule Detection From Postero-Anterior Chest Radiographs. IEEE Transactions on Medical Imaging, 2006, 25, 1588-1603.	8.9	85
6	Intrinsic Dimension Estimation: Relevant Techniques and a Benchmark Framework. Mathematical Problems in Engineering, 2015, 2015, 1-21.	1.1	65
7	Novel high intrinsic dimensionality estimators. Machine Learning, 2012, 89, 37-65.	5.4	58
8	DANCo: An intrinsic dimensionality estimator exploiting angle and norm concentration. Pattern Recognition, 2014, 47, 2569-2581.	8.1	55
9	Explainable Machine Learning for Early Assessment of COVID-19 Risk Prediction in Emergency Departments. IEEE Access, 2020, 8, 196299-196325.	4.2	55
10	Support vector machines for candidate nodules classification. Neurocomputing, 2005, 68, 281-288.	5.9	45
11	Automatic Abdominal Organ Segmentation from CT images. Electronic Letters on Computer Vision and Image Analysis, 2009, 8, 1.	0.6	40
12	A segmentation framework for abdominal organs from CT scans. Artificial Intelligence in Medicine, 2010, 50, 3-11.	6.5	38
13	Chest CT in patients with a moderate or high pretest probability of COVID-19 and negative swab. Radiologia Medica, 2020, 125, 1260-1270.	7.7	37
14	Characterization of liver nodules in patients with chronic liver disease by MRI: performance of the Liver Imaging Reporting and Data System (LI-RADS v.2018) scale and its comparison with the Likert scale. Radiologia Medica, 2020, 125, 15-23.	7.7	27
15	Liver Segmentation from CT Scans: A Survey. Lecture Notes in Computer Science, 2007, , 520-528.	1.3	24
16	Novel Fisher discriminant classifiers. Pattern Recognition, 2012, 45, 3725-3737.	8.1	23
17	Minimum Neighbor Distance Estimators of Intrinsic Dimension. Lecture Notes in Computer Science, 2011, , 374-389.	1.3	23
18	IDEA: Intrinsic Dimension Estimation Algorithm. Lecture Notes in Computer Science, 2011, , 433-442.	1.3	20

#	ARTICLE	IF	CITATIONS
19	A novel computational method for automatic segmentation, quantification and comparative analysis of immunohistochemically labeled tissue sections. <i>BMC Bioinformatics</i> , 2018, 19, 357.	2.6	17
20	Risk of new-onset psychiatric sequelae of COVID-19 in the early and late post-acute phase. <i>World Psychiatry</i> , 2022, 21, 319-320.	10.4	15
21	Automatic liver segmentation from abdominal CT scans. , 2007, , .		12
22	Fully Automatic Segmentation of Abdominal Organs from CT Images Using Fast Marching Methods. , 2008, , .		12
23	Heterogeneous data integration methods for patient similarity networks. <i>Briefings in Bioinformatics</i> , 2022, 23, .	6.5	12
24	MIAQuant, a novel system for automatic segmentation, measurement, and localization comparison of different biomarkers from serialized histological slices. <i>European Journal of Histochemistry</i> , 2017, 61, 2838.	1.5	11
25	ki67 nuclei detection and ki67-index estimation: a novel automatic approach based on human vision modeling. <i>BMC Bioinformatics</i> , 2019, 20, 733.	2.6	11
26	Network modeling of patients' biomolecular profiles for clinical phenotype/outcome prediction. <i>Scientific Reports</i> , 2020, 10, 3612.	3.3	11
27	A cockpit of multiple measures for assessing film restoration quality. <i>Pattern Recognition Letters</i> , 2020, 131, 178-184.	4.2	11
28	Variations in volume of emergency surgeries and emergency department access at a third level hospital in Milan, Lombardy, during the COVID-19 outbreak. <i>BMC Emergency Medicine</i> , 2021, 21, 59.	1.9	11
29	Epidemiological profile of non-traumatic emergencies of the neck in CT imaging: our experience. <i>Radiologia Medica</i> , 2014, 119, 784-789.	7.7	9
30	UNIPred-Web: a web tool for the integration and visualization of biomolecular networks for protein function prediction. <i>BMC Bioinformatics</i> , 2019, 20, 422.	2.6	9
31	Complex Data Imputation by Auto-Encoders and Convolutional Neural Networks – A Case Study on Genome Gap-Filling. <i>Computers</i> , 2020, 9, 37.	3.3	9
32	15 Years of Stanca Act: Are Italian Public universities websites accessible?. <i>Universal Access in the Information Society</i> , 2021, 20, 185-200.	3.0	9
33	Scoping review on automatic color equalization algorithm. <i>Journal of Electronic Imaging</i> , 2021, 30, .	0.9	9
34	Novel IPCA-Based Classifiers and Their Application to Spam Filtering. , 2009, , .		8
35	The value of precontrast thoraco-abdominopelvic CT in polytrauma patients. <i>European Journal of Radiology</i> , 2015, 84, 1212-1218.	2.6	8
36	Table understanding approaches for extracting knowledge from heterogeneous tables. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2021, 11, e1407.	6.8	8

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37	Intestinal interposition: the prevalence and clinical relevance of non-hepatodiaphragmatic conditions (non-Chilaiditi forms) documented by CT and review of the literature. Radiologia Medica, 2011, 116, 607-619.	7.7	7
38	Volume-of-Interest Aware Deep Neural Networks for Rapid Chest CT-Based COVID-19 Patient Risk Assessment. International Journal of Environmental Research and Public Health, 2021, 18, 2842.	2.6	7
39	Virtual Assistants for End-User Development in the Internet of Things. Lecture Notes in Computer Science, 2019, , 209-216.	1.3	6
40	A Face Detection System Based on Color and Support Vector Machines. Lecture Notes in Computer Science, 2003, , 113-120.	1.3	5
41	Lung nodules detection and classification. , 2005, , .		5
42	Local Intrinsic Dimensionality Based Features for Clustering. Lecture Notes in Computer Science, 2013, , 41-50.	1.3	5
43	Artificial Intelligence in Predicting Clinical Outcome in COVID-19 Patients from Clinical, Biochemical and a Qualitative Chest X-Ray Scoring System. Reports in Medical Imaging, 0, Volume 14, 27-39.	0.8	4
44	Supervised learning with word embeddings derived from PubMed captures latent knowledge about protein kinases and cancer. NAR Genomics and Bioinformatics, 2021, 3, lqab113.	3.2	4
45	Nodule Detection in Postero Anterior Chest Radiographs. Lecture Notes in Computer Science, 2004, , 1048-1049.	1.3	3
46	The Neighbors Voting Algorithm and Its Applications. Studies in Computational Intelligence, 2009, , 151-173.	0.9	3
47	Automatic Segmentation of Abdominal Organs from CT Scans. , 2007, , .		2
48	HEMDAG: a family of modular and scalable hierarchical ensemble methods to improve Gene Ontology term prediction. Bioinformatics, 2021, 37, 4526-4533.	4.1	2
49	3D $\hat{\pm}$ -Expansion and Graph Cut Algorithms for Automatic Liver Segmentation from CT Images. , 2007, , 421-428.		2
50	3D Volume Reconstruction and Biometric Analysis of Fetal Brain from MR Images. Lecture Notes in Computer Science, 2009, , 188-197.	1.3	2
51	LUNG EDGE DETECTION IN POSTERO ANTERIOR CHEST RADIOGRAPHS. , 2003, , .		2
52	An Automatic Feature Based Face Authentication System,. Lecture Notes in Computer Science, 2006, , 120-126.	1.3	2
53	Neighborhood Selection for Dimensionality Reduction. Lecture Notes in Computer Science, 2015, , 183-191.	1.3	2
54	Abdominal Computed Tomography Imaging Findings in Hospitalized COVID-19 Patients: A Year-Long Experience and Associations Revealed by Explainable Artificial Intelligence. Journal of Imaging, 2021, 7, 258.	3.0	2

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55	Automated image analysis to assess hygienic behaviour of honeybees. PLoS ONE, 2022, 17, e0263183.	2.5	2
56	An approach to evaluate the quality of radiological reports in Head and Neck cancer loco-regional staging: experience of two Academic Hospitals. Radiologia Medica, 2022, 127, 407-413.	7.7	2
57	Frozen Section Analysis and Real-Time Magnetic Resonance Imaging of Surgical Specimen Oriented on 3D Printed Tongue Model to Assess Surgical Margins in Oral Tongue Carcinoma: Preliminary Results. Frontiers in Oncology, 2021, 11, 735002.	2.8	2
58	A Partial Coverage Based Approach to Classification. , 2007, , .		1
59	Pseudo-pneumatosis of the gastrointestinal tract: its incidence and the accuracy of a checklist supported by artificial intelligence (AI) techniques to reduce the misinterpretation of pneumatosis. Emergency Radiology, 2021, 28, 911-919.	1.8	1
60	Detection of Facial Features. Lecture Notes in Computer Science, 2002, , 124-131.	1.3	1
61	A Novel Intrinsic Dimensionality Estimator Based on Rank-Order Statistics. Lecture Notes in Computer Science, 2015, , 102-117.	1.3	1
62	Bayesian Optimization Improves Tissue-Specific Prediction of Active Regulatory Regions with Deep Neural Networks. Lecture Notes in Computer Science, 2020, , 600-612.	1.3	1
63	Linear Regularized Compression of Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2017, , 244-253.	1.3	0
64	PIPCAC: A Novel Binary Classifier Assuming Mixtures of Gaussian Functions. , 2010, , .		0
65	A Graphical Tool for the Exploration and Visual Analysis of Biomolecular Networks. Lecture Notes in Computer Science, 2020, , 88-98.	1.3	0
66	Diagnostic Performance of Chest CT in Suspected COVID-19 Patients with a Negative First RT-PCR Testing. SSRN Electronic Journal, 0, , .	0.4	0
67	Pruning the Nodule Candidate Set in Postero Anterior Chest Radiographs. , 2005, , 37-43.		0