

# Carmelo Militello

## List of Publications by Year in descending order

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52  
papers

1,251  
citations

361045

20  
h-index

395343

33  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1273  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D DCE-MRI Radiomic Analysis for Malignant Lesion Prediction in Breast Cancer Patients. Academic Radiology, 2022, 29, 830-840.	1.3	31
2	Semi-automated and interactive segmentation of contrast-enhancing masses on breast DCE-MRI using spatial fuzzy clustering. Biomedical Signal Processing and Control, 2022, 71, 103113.	3.5	35
3	On Unsupervised Methods for Medical Image Segmentation: Investigating Classic Approaches in Breast Cancer DCE-MRI. Applied Sciences (Switzerland), 2022, 12, 162.	1.3	9
4	Robustness Analysis of DCE-MRI-Derived Radiomic Features in Breast Masses: Assessing Quantization Levels and Segmentation Agreement. Applied Sciences (Switzerland), 2022, 12, 5512.	1.3	4
5	A Novel Bio-Inspired Approach for High-Performance Management in Service-Oriented Networks. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1709-1722.	3.2	30
6	A quantum-inspired classifier for clonogenic assay evaluations. Scientific Reports, 2021, 11, 2830.	1.6	25
7	A Computational Study on Temperature Variations in MRgFUS Treatments Using PRF Thermometry Techniques and Optical Probes. Journal of Imaging, 2021, 7, 63.	1.7	2
8	Fingerprint Classification Based on Deep Learning Approaches: Experimental Findings and Comparisons. Symmetry, 2021, 13, 750.	1.1	24
9	A multimodal retina iris biometric system using the Levenshtein distance for spatial feature comparison. IET Biometrics, 2021, 10, 44-64.	1.6	8
10	Biological and Mechanical Characterization of the Random Positioning Machine (RPM) for Microgravity Simulations. Life, 2021, 11, 1190.	1.1	10
11	Advanced Computational Methods for Oncological Image Analysis. Journal of Imaging, 2021, 7, 237.	1.7	2
12	ACDC: Automated Cell Detection and Counting for Time-Lapse Fluorescence Microscopy. Applied Sciences (Switzerland), 2020, 10, 6187.	1.3	9
13	MF2C3: Multi-Feature Fuzzy Clustering to Enhance Cell Colony Detection in Automated Clonogenic Assay Evaluation. Symmetry, 2020, 12, 773.	1.1	14
14	CNN-Based Prostate Zonal Segmentation on T2-Weighted MR Images: A Cross-Dataset Study. Smart Innovation, Systems and Technologies, 2020, , 269-280.	0.5	20
15	Radiosensitizing effect of curcumin-loaded lipid nanoparticles in breast cancer cells. Scientific Reports, 2019, 9, 11134.	1.6	68
16	USE-Net: Incorporating Squeeze-and-Excitation blocks into U-Net for prostate zonal segmentation of multi-institutional MRI datasets. Neurocomputing, 2019, 365, 31-43.	3.5	185
17	A semi-automatic approach for epicardial adipose tissue segmentation and quantification on cardiac CT scans. Computers in Biology and Medicine, 2019, 114, 103424.	3.9	47
18	A novel framework for MR image segmentation and quantification by using MedGA. Computer Methods and Programs in Biomedicine, 2019, 176, 159-172.	2.6	43

#	ARTICLE	IF	CITATIONS
19	A Survey on Nature-Inspired Medical Image Analysis: A Step Further in Biomedical Data Integration. <i>Fundamenta Informaticae</i> , 2019, 171, 345-365.	0.3	31
20	MedGA: A novel evolutionary method for image enhancement in medical imaging systems. <i>Expert Systems With Applications</i> , 2019, 119, 387-399.	4.4	85
21	Computer-Assisted Approaches for Uterine Fibroid Segmentation in MRgFUS Treatments: Quantitative Evaluation and Clinical Feasibility Analysis. <i>Smart Innovation, Systems and Technologies</i> , 2019, , 229-241.	0.5	1
22	NeXt for neuro-radiosurgery: A fully automatic approach for necrosis extraction in brain tumor MRI using an unsupervised machine learning technique. <i>International Journal of Imaging Systems and Technology</i> , 2018, 28, 21-37.	2.7	41
23	GTVcut for neuro-radiosurgery treatment planning: an MRI brain cancer seeded image segmentation method based on a cellular automata model. <i>Natural Computing</i> , 2018, 17, 521-536.	1.8	32
24	Energy Efficiency Evaluation of Dynamic Partial Reconfiguration in Field Programmable Gate Arrays: An Experimental Case Study. <i>Energies</i> , 2018, 11, 739.	1.6	3
25	Fully Automatic Multispectral MR Image Segmentation of Prostate Gland Based on the Fuzzy C-Means Clustering Algorithm. <i>Smart Innovation, Systems and Technologies</i> , 2018, , 23-37.	0.5	8
26	A fully automatic approach for multimodal PET and MR image segmentation in gamma knife treatment planning. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 144, 77-96.	2.6	39
27	Area-based cell colony surviving fraction evaluation: A novel fully automatic approach using general-purpose acquisition hardware. <i>Computers in Biology and Medicine</i> , 2017, 89, 454-465.	3.9	19
28	Automated Prostate Gland Segmentation Based on an Unsupervised Fuzzy C-Means Clustering Technique Using Multispectral T1w and T2w MR Imaging. <i>Information (Switzerland)</i> , 2017, 8, 49.	1.7	48
29	Multimodal medical image registration using Particle Swarm Optimization: A review. , 2016, , .		25
30	Neuro-Radiosurgery Treatments: MRI Brain Tumor Seeded Image Segmentation Based on a Cellular Automata Model. <i>Lecture Notes in Computer Science</i> , 2016, , 323-333.	1.0	4
31	Combining split-and-merge and multi-seed region growing algorithms for uterine fibroid segmentation in MRgFUS treatments. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1071-1084.	1.6	38
32	Semi-automatic Brain Lesion Segmentation in Gamma Knife Treatments Using an Unsupervised Fuzzy C-Means Clustering Technique. <i>Smart Innovation, Systems and Technologies</i> , 2016, , 15-26.	0.5	9
33	An edge-driven 3D region-growing approach for upper airway morphology and volume evaluation in patients with Pierre Robin sequence. <i>International Journal of Adaptive and Innovative Systems</i> , 2015, 2, 232.	0.1	4
34	Gamma Knife treatment planning: MR brain tumor segmentation and volume measurement based on unsupervised Fuzzy C-Means clustering. <i>International Journal of Imaging Systems and Technology</i> , 2015, 25, 213-225.	2.7	36
35	Personal health system: A tool to support the patient empowerment. , 2015, , .		4
36	Biometric sensors rapid prototyping on field-programmable gate arrays. <i>Knowledge Engineering Review</i> , 2015, 30, 201-219.	2.1	5

#	ARTICLE	IF	CITATIONS
37	A virtual health record-based EHR system. , 2015, , .		1
38	A fully automatic 2D segmentation method for uterine fibroid in MRgFUS treatment evaluation. Computers in Biology and Medicine, 2015, 62, 277-292.	3.9	30
39	Radial Basis Function Interpolation for Referenceless Thermometry Enhancement. Smart Innovation, Systems and Technologies, 2015, , 195-206.	0.5	3
40	Semi-Automatic Volumetric Segmentation of the Upper Airways in Patients with Pierre Robin Sequence. Neuroradiology Journal, 2014, 27, 487-494.	0.6	10
41	Referenceless thermometry using radial basis function interpolation. , 2014, , .		3
42	A Semi-automatic Multi-seed Region-Growing Approach for Uterine Fibroids Segmentation in MRgFUS Treatment. , 2013, , .		8
43	A Programmable Networked Processing Node for 3D Brain Vessels Reconstruction. , 2011, , .		1
44	An Embedded Processor for Metabolic Networks Optimization. , 2011, , .		2
45	Embedded access points for trusted data and resources access in HPC systems. Journal of Supercomputing, 2011, 55, 4-27.	2.4	20
46	Introducing Pseudo-Singularity Points for Efficient Fingerprints Classification and Recognition. , 2010, , .		20
47	A Frequency-based Approach for Features Fusion in Fingerprint and Iris Multimodal Biometric Identification Systems. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 384-395.	3.3	95
48	A User-Friendly Interface for Fingerprint Recognition Systems Based on Natural Language Processing. , 2009, , .		1
49	An extended JADE-S based framework for developing secure Multi-Agent Systems. Computer Standards and Interfaces, 2009, 31, 913-930.	3.8	27
50	An Embedded Module for Iris Micro-Characteristics Extraction. , 2009, , .		3
51	A Novel Embedded Fingerprints Authentication System Based on Singularity Points. , 2008, , .		17
52	A Self-Contained Biometric Sensor for Ubiquitous Authentication. , 2007, , .		5