

Alessandro Bevilacqua

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

2,097
citations

471061

17
h-index

288905

40
g-index

110
all docs

110
docs citations

110
times ranked

3618
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatically Extracted Machine Learning Features from Preoperative CT to Early Predict Microvascular Invasion in HCC: The Role of the Zone of Transition (ZOT). <i>Cancers</i> , 2022, 14, 1816.	1.7	17
2	Reproducibility of Computed Tomography perfusion parameters in hepatic multicentre study in patients with colorectal cancer. <i>Biomedical Signal Processing and Control</i> , 2021, 64, 102298.	3.5	0
3	Identification of Sclerostin as a Putative New Myokine Involved in the Muscle-to-Bone Crosstalk. <i>Biomedicines</i> , 2021, 9, 71.	1.4	26
4	Density Distribution Maps: A Novel Tool for Subcellular Distribution Analysis and Quantitative Biomedical Imaging. <i>Sensors</i> , 2021, 21, 1009.	2.1	4
5	TP53 drives abscopal effect by secretion of senescence-associated molecular signals in non-small cell lung cancer. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 89.	3.5	18
6	The Heterogeneity of Skewness in T2W-Based Radiomics Predicts the Response to Neoadjuvant Chemoradiotherapy in Locally Advanced Rectal Cancer. <i>Diagnostics</i> , 2021, 11, 795.	1.3	19
7	The Primacy of High B-Value 3T-DWI Radiomics in the Prediction of Clinically Significant Prostate Cancer. <i>Diagnostics</i> , 2021, 11, 739.	1.3	14
8	A [68Ga]Ga-DOTANOC PET/CT Radiomic Model for Non-Invasive Prediction of Tumour Grade in Pancreatic Neuroendocrine Tumours. <i>Diagnostics</i> , 2021, 11, 870.	1.3	13
9	Reproducibility of CT-based radiomic features against image resampling and perturbations for tumour and healthy kidney in renal cancer patients. <i>Scientific Reports</i> , 2021, 11, 11542.	1.6	16
10	Human, All Too Human? An All-Around Appraisal of the "Artificial Intelligence Revolution" in Medical Imaging. <i>Frontiers in Psychology</i> , 2021, 12, 710982.	1.1	53
11	Co-Density Distribution Maps for Advanced Molecule Colocalization and Co-Distribution Analysis. <i>Sensors</i> , 2021, 21, 6385.	2.1	2
12	SUV95th as a Reliable Alternative to SUVmax for Determining Renal Uptake in [68Ga] PSMA PET/CT. <i>Molecular Imaging and Biology</i> , 2020, 22, 1070-1077.	1.3	4
13	The effects of baseline length in Computed Tomography perfusion of liver. <i>Biomedical Signal Processing and Control</i> , 2020, 62, 102135.	3.5	0
14	Modeling of Beam Loss Induced Quenches in the LHC Main Dipole Magnets. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-7.	1.1	1
15	Colormaps Of Computed Tomography Liver Perfusion Parameters Achieved Using Different Computing Methods Match. , 2019, , .		0
16	Liver CT perfusion: which is the relevant delay that reduces radiation dose and maintains diagnostic accuracy?. <i>European Radiology</i> , 2019, 29, 6550-6558.	2.3	7
17	Texture Analysis of Non-Small Cell Lung Cancer on Unenhanced CT and Blood Flow Maps: a Potential Prognostic Tool. , 2019, , .		0
18	Open-Source Tools for Volume Estimation of 3D Multicellular Aggregates. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1616.	1.3	4

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19	Exploratory radiomic features from integrated 18F-fluorodeoxyglucose positron emission tomography/magnetic resonance imaging are associated with contemporaneous metastases in oesophageal/gastroesophageal cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 1478-1484.	3.3	17
20	Analysis of CT Perfusion Blood Flow Maps in Patients with Lung Cancer: Correlation with the Overall Survival. , 2018, , .		1
21	Analysis of the effects of fitting errors of DCE-CT signals on perfusion parameters. , 2018, , .		1
22	Advances in cancer modeling: fluidic systems for increasing representativeness of large 3D multicellular spheroids. <i>BioTechniques</i> , 2018, 65, 312-314.	0.8	6
23	CT Perfusion in Patients with Lung Cancer: Squamous Cell Carcinoma and Adenocarcinoma Show a Different Blood Flow. <i>BioMed Research International</i> , 2018, 2018, 1-10.	0.9	11
24	Colour Vignetting Correction for Microscopy Image Mosaics Used for Quantitative Analyses. <i>BioMed Research International</i> , 2018, 2018, 1-15.	0.9	7
25	A novel algorithm to detect the baseline value of a time signal in Dynamic Contrast Enhanced-Computed Tomography. , 2018, , .		3
26	Application of a plant phenotyping algorithm to detect stress caused by nematodes. <i>Rhizosphere</i> , 2018, 6, 86-88.	1.4	1
27	Reliable measurement of E. coli single cell fluorescence distribution using a standard microscope set-up. <i>Journal of Biological Engineering</i> , 2017, 11, 8.	2.0	9
28	A novel approach for semi-quantitative assessment of reliability of blood flow values in DCE-CT perfusion. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 257-264.	3.5	10
29	ReViMS: Software tool for estimating the volumes of 3-D multicellular spheroids imaged using a light sheet fluorescence microscope. <i>BioTechniques</i> , 2017, 63, 227-229.	0.8	14
30	Multislice Analysis of Blood Flow Values in CT Perfusion Studies of Lung Cancer. <i>BioMed Research International</i> , 2017, 2017, 1-11.	0.9	4
31	A new holistic 3D non-invasive analysis of cellular distribution and motility on fibroin-alginate microcarriers using light sheet fluorescent microscopy. <i>PLoS ONE</i> , 2017, 12, e0183336.	1.1	19
32	Cell Counting and Viability Assessment of 2D and 3D Cell Cultures: Expected Reliability of the Trypan Blue Assay. <i>Biological Procedures Online</i> , 2017, 19, 8.	1.4	70
33	Long term morphological characterization of mesenchymal stromal cells 3D spheroids built with a rapid method based on entry-level equipment. <i>Cytotechnology</i> , 2016, 68, 2479-2490.	0.7	26
34	Single-image based methods used for non-invasive volume estimation of cancer spheroids: a practical assessing approach based on entry-level equipment. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 135, 51-60.	2.6	18
35	3D tumor spheroid models for in vitro therapeutic screening: a systematic approach to enhance the biological relevance of data obtained. <i>Scientific Reports</i> , 2016, 6, 19103.	1.6	755
36	Automatic detection of misleading blood flow values in CT perfusion studies of lung cancer. <i>Biomedical Signal Processing and Control</i> , 2016, 26, 109-116.	3.5	11

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37	Automatic classification of lung tumour heterogeneity according to a visual-based score system in dynamic contrast enhanced CT sequences. International Journal of Modern Physics C, 2016, 27, 1650106.	0.8	6
38	Image Processing Based Air Vehicles Classification for UAV Sense and Avoid Systems. , 2015, , .		0
39	Cancer multicellular spheroids: Volume assessment from a single 2D projection. Computer Methods and Programs in Biomedicine, 2015, 118, 95-106.	2.6	59
40	Analysis of Beam-Induced Quenches of the LHC Cables With a Multi-Strand Model. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	4
41	CIDRE: an illumination-correction method for optical microscopy. Nature Methods, 2015, 12, 404-406.	9.0	129
42	Effects of Guided Random Sampling of TCCs on Blood Flow Values in CT Perfusion Studies of Lung Tumors. Academic Radiology, 2015, 22, 58-69.	1.3	24
43	Image processing method for 3D volume rendering from one 2D projection: Application to Cancer spheroids. , 2014, , .		0
44	Improving reliability of live/dead cell counting through automated image mosaicing. Computer Methods and Programs in Biomedicine, 2014, 117, 448-463.	2.6	15
45	Quantitative Assessment of Effects of Motion Compensation for Liver and Lung Tumors in CT Perfusion. Academic Radiology, 2014, 21, 1416-1426.	1.3	17
46	Semi-quantitative monitoring of confluence of adherent mesenchymal stromal cells on calcium-phosphate granules by using widefield microscopy images. Journal of Materials Science: Materials in Medicine, 2014, 25, 2395-2410.	1.7	6
47	Manual Stage Acquisition and Interactive Display of Digital Slides in Histopathology. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1413-1422.	3.9	3
48	Error analysis of satellite attitude determination using a vision-based approach. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 83, 19-29.	4.9	6
49	Automated image mosaics by non-automated light microscopes: the <i>MicroMos</i> software tool. Journal of Microscopy, 2013, 252, 226-250.	0.8	29
50	Vignetting and photo-bleaching correction in automated fluorescence microscopy from an array of overlapping images. , 2013, , .		7
51	Computer assisted detection of regions of interest in histopathology using a hybrid supervised and unsupervised approach. Proceedings of SPIE, 2013, , .	0.8	2
52	Real-time whole slide mosaicing for non-automated microscopes in histopathology analysis. Journal of Pathology Informatics, 2013, 4, 9.	0.8	4
53	Protein kinase B/AKT isoform 2 drives migration of human mesenchymal stem cells. International Journal of Oncology, 2013, 42, 118-126.	1.4	23
54	Multi-image based method to correct vignetting effect in light microscopy images. Journal of Microscopy, 2012, 248, 6-22.	0.8	44

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55	Extended depth of focus in optical microscopy: Assessment of existing methods and a new proposal. <i>Microscopy Research and Technique</i> , 2012, 75, 1582-1592.	1.2	22
56	An incremental method for mosaicing of optical microscope imagery. , 2011, , .		8
57	Mosaicing of optical microscope imagery based on visual information. , 2011, 2011, 6162-5.		9
58	Illumination field estimation through background detection in optical microscopy. , 2011, , .		9
59	Vignetting correction by exploiting an optical microscopy image sequence. , 2011, 2011, 6166-9.		10
60	A Simulation Framework to Assess Pattern Matching Algorithms in a Space Mission. <i>Lecture Notes in Computer Science</i> , 2011, , 404-413.	1.0	0
61	An Automatic System for the Real-Time Characterization of Vehicle Headlamp Beams Exploiting Image Analysis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010, 59, 2630-2638.	2.4	3
62	High accuracy estimation of vehicle trajectory using a real time stereo tracking system. , 2009, , .		2
63	An industrial vision-based technology system for the automatic test of vehicle beams. , 2009, , .		2
64	A CAPACITIVE IMAGE ANALYSIS SYSTEM TO CHARACTERIZE THE SKIN SURFACE. <i>International Journal of Modern Physics C</i> , 2009, 20, 2027-2041.	0.8	2
65	A vision-based approach for high accuracy assessment of satellite attitude. , 2009, , .		1
66	An Image Registration Approach for Accurate Satellite Attitude Estimation. <i>Lecture Notes in Computer Science</i> , 2009, , 827-836.	1.0	2
67	A Novel Vision-Based Approach for Autonomous Space Navigation Systems. <i>Lecture Notes in Computer Science</i> , 2009, , 837-846.	1.0	3
68	A Visual Perception Approach for Accurate Segmentation of Light Profiles. <i>Lecture Notes in Computer Science</i> , 2009, , 168-177.	1.0	1
69	Accurate eye-like segmentation in a heavily untextured contrasted scene. , 2008, , .		2
70	A robust approach to reconstruct experimentally the camera response function. , 2008, , .		5
71	Automatic Perspective Camera Calibration Based on an Incomplete Set of Chessboard Markers. , 2008, , .		9
72	Characterization of a capacitive imaging system for skin surface analysis. , 2008, , .		4

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73	Real time detection of stopped vehicles in traffic scenes. , 2007, , .		21
74	A High Performance Exact Histogram Specification Algorithm. , 2007, , .		12
75	A Fast and Reliable Image Mosaicing Technique with Application to Wide Area Motion Detection. Lecture Notes in Computer Science, 2007, , 501-512.	1.0	22
76	High-Quality Real Time Motion Detection Using PTZ Cameras. , 2006, , .		35
77	Measuring Skin Topographic Structures through Capacitance Image Analysis. , 2006, , .		0
78	People Tracking Using a Time-of-Flight Depth Sensor. , 2006, , .		59
79	EVALUATION OF SKIN AGEING THROUGH WRINKLE ANALYSIS IN CAPACITIVE IMAGES. International Journal of Modern Physics C, 2006, 17, 1663-1678.	0.8	2
80	Joint Spatial and Tonal Mosaic Alignment for Motion Detection with PTZ Camera. Lecture Notes in Computer Science, 2006, , 764-775.	1.0	14
81	Optimizing parameters of a motion detection system by means of a distributed genetic algorithm. Image and Vision Computing, 2005, 23, 815-829.	2.7	9
82	A Simple Self-Calibration Method To Infer A Non-Parametric Model Of The Imaging System Noise. , 2005, , .		6
83	Occlusion Robust Vehicle Tracking based on SOM (Self-Organizing Map). , 2005, , .		6
84	A novel approach to change detection based on a coarse-to-fine strategy. , 2005, , .		7
85	In Vivo Quantitative Evaluation of Skin Ageing by Capacitance Image Analysis. , 2005, , .		4
86	PREDICTING BIOLOGICAL AGE FROM A SKIN SURFACE CAPACITIVE ANALYSIS. International Journal of Modern Physics C, 2004, 15, 1309-1320.	0.8	3
87	Age-related skin analysis by capacitance images. , 2004, , .		15
88	High Quality-Speed Dilemma: A Comparison Between Segmentation Methods for Traffic Monitoring Applications. Lecture Notes in Computer Science, 2004, , 481-488.	1.0	0
89	A dedicated system for breast cancer study with combined SPECT"CT modalities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 497, 129-134.	0.7	9
90	A Single-Scan Algorithm for Connected Components Labelling in a Traffic Monitoring Application. Lecture Notes in Computer Science, 2003, , 677-684.	1.0	2

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91	Characterization of an FFDM unit based on a-Se direct conversion detector. , 2003, , 69-71.		0
92	A Methodological Approach to Parallel Simulated Annealing on an SMP System. Journal of Parallel and Distributed Computing, 2002, 62, 1548-1570.	2.7	14
93	OPTIMIZATION OF A DISTRIBUTED GENETIC ALGORITHM ON A CLUSTER OF WORKSTATIONS FOR THE DETECTION OF MICROCALCIFICATIONS. International Journal of Modern Physics C, 2001, 12, 55-70.	0.8	8
94	An SVM classifier to separate false signals from microcalcifications in digital mammograms. Physics in Medicine and Biology, 2001, 46, 1651-1663.	1.6	84
95	A Distributed Genetic Algorithm for Parameters Optimization to Detect Microcalcifications in Digital Mammograms. Lecture Notes in Computer Science, 2001, , 278-287.	1.0	8
96	Parallel image restoration on parallel and distributed computers. Parallel Computing, 2000, 26, 495-506.	1.3	4
97	SYSTEM FOR AUTOMATIC DETECTION OF CLUSTERED MICROCALCIFICATIONS IN DIGITAL MAMMOGRAMS. International Journal of Modern Physics C, 2000, 11, 901-912.	0.8	13
98	EVALUATION OF A FULLY 3-D BPF METHOD FOR SMALL ANIMAL PET IMAGES ON MIMD ARCHITECTURES. International Journal of Modern Physics C, 1999, 10, 723-739.	0.8	6
99	A 3-D Monte Carlo simulation of a small animal positron emission tomograph with millimeter spatial resolution. IEEE Transactions on Nuclear Science, 1999, 46, 697-701.	1.2	9
100	A New Approach to Image Reconstruction in Positron Emission Tomography Using Artificial Neural Networks. International Journal of Modern Physics C, 1998, 09, 71-85.	0.8	8
101	A 3-D Monte Carlo simulation of a small animal positron emission tomograph with millimeter spatial resolution. , 0, , .		2
102	An efficient change detection algorithm based on a statistical non-parametric camera noise model. , 0, , .		6
103	A modular description for collimator geometry in EGS simulation tasks. , 0, , .		5
104	Calibrating a Motion Detection System by Means of a Distributed Genetic Algorithm. , 0, , .		1
105	An effective multi-stage background generation algorithm. , 0, , .		4
106	Coarse-to-fine strategy for robust and efficient change detectors. , 0, , .		5
107	An effective real-time mosaicing algorithm apt to detect motion through background subtraction using a PTZ camera. , 0, , .		28