

Paola Casti

List of Publications by Year in descending order

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43
papers

465
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758635

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794141

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docs citations

45
times ranked

468
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning phenomics (MLP) combining deep learning with time-lapse-microscopy for monitoring colorectal adenocarcinoma cells gene expression and drug-response. Scientific Reports, 2022, 12, .	1.6	10
2	Exploiting spectral information in Opto-Electronic Tweezers for cell classification and drug response evaluation. Sensors and Actuators B: Chemical, 2022, 368, 132200.	4.0	8
3	Multi-scale generative adversarial network for improved evaluation of cell-cell interactions observed in organ-on-chip experiments. Neural Computing and Applications, 2021, 33, 3671-3689.	3.2	13
4	Metrological Characterization of a Pain Detection System Based on Transfer Entropy of Facial Landmarks. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	2.4	5
5	Deep-MEG: spatiotemporal CNN features and multiband ensemble classification for predicting the early signs of Alzheimer's disease with magnetoencephalography. Neural Computing and Applications, 2021, 33, 14651-14667.	3.2	10
6	NeuriTES. Monitoring neurite changes through transfer entropy and semantic segmentation in bright-field time-lapse microscopy. Patterns, 2021, 2, 100261.	3.1	6
7	Deciphering Cancer Cell Behavior From Motility and Shape Features: Peer Prediction and Dynamic Selection to Support Cancer Diagnosis and Therapy. Frontiers in Oncology, 2020, 10, 580698.	1.3	9
8	A Personalized Assessment Platform for Non-invasive Monitoring of Pain. , 2020, , .		2
9	Accelerating the experimental responses on cell behaviors: a long-term prediction of cell trajectories using Social Generative Adversarial Network. Scientific Reports, 2020, 10, 15635.	1.6	8
10	A deep CNN-based approach for predicting MCI to AD conversion. Alzheimer's and Dementia, 2020, 16, e047570.	0.4	1
11	Lateral Acromioplasty has a Positive Impact on Rotator Cuff Repair in Patients with a Critical Shoulder Angle Greater than 35 Degrees. Journal of Clinical Medicine, 2020, 9, 3950.	1.0	7
12	Discovering the hidden messages within cell trajectories using a deep learning approach for in vitro evaluation of cancer drug treatments. Scientific Reports, 2020, 10, 7653.	1.6	34
13	A Camera Sensors-Based System to Study Drug Effects on In Vitro Motility: The Case of PC-3 Prostate Cancer Cells. Sensors, 2020, 20, 1531.	2.1	5
14	Calibration of Vision-Based Measurement of Pain Intensity With Multiple Expert Observers. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2442-2450.	2.4	13
15	A cross-cutting approach for tracking architectural distortion locii on digital breast tomosynthesis slices. Biomedical Signal Processing and Control, 2019, 50, 92-102.	3.5	8
16	The Influence of Uncertainty Contributions on Deep Learning Architectures in Vision-Based Evaluation Systems. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2425-2432.	2.4	8
17	The influence of spatial and temporal resolutions on the analysis of cell-cell interaction: a systematic study for time-lapse microscopy applications. Scientific Reports, 2019, 9, 6789.	1.6	25
18	Learning Cancer-Related Drug Efficacy Exploiting Consensus in Coordinated Motility Within Cell Clusters. IEEE Transactions on Biomedical Engineering, 2019, 66, 2882-2888.	2.5	21

#	ARTICLE	IF	CITATIONS
19	A Multi-label Architecture for Vision-based Measurement of Intervals of Pain. , 2018, , .		3
20	A Deep Learning Strategy for Vision-Based Evaluation on the Effect of Nanoparticles Exposure. , 2018, , .		4
21	Uncertainty Evaluation of a VBM System for AFM Study of Cell-Cerium Oxide Nanoparticles Interactions. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1564-1572.	2.4	8
22	Reduction of false-positives in a CAD scheme for automated detection of architectural distortion in digital mammography. , 2018, , .		2
23	Cooperative strategy for a dynamic ensemble of classification models in clinical applications: the case of MRI vertebral compression fractures. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1971-1983.	1.7	8
24	Robust classification of biological samples in atomic force microscopy images via multiple filtering cooperation. Knowledge-Based Systems, 2017, 133, 221-233.	4.0	6
25	Computerized Analysis of Mammographic Images for Detection and Characterization of Breast Cancer. Synthesis Lectures on Biomedical Engineering, 2017, 10, 1-186.	0.1	1
26	Towards localization of malignant sites of asymmetry across bilateral mammograms. Computer Methods and Programs in Biomedicine, 2017, 140, 11-18.	2.6	12
27	AFM-based robust image analysis to contrast reversal effects in cell-cerium oxide nanoparticles interactions. , 2017, , .		3
28	Identification of mammography anomalies for breast cancer detection by an ensemble of classification models based on artificial immune system. Knowledge-Based Systems, 2016, 101, 60-70.	4.0	32
29	Contour-independent detection and classification of mammographic lesions. Biomedical Signal Processing and Control, 2016, 25, 165-177.	3.5	34
30	Analysis of Structural Similarity in Mammograms for Detection of Bilateral Asymmetry. IEEE Transactions on Medical Imaging, 2015, 34, 662-671.	5.4	29
31	Adaptive classification model based on artificial immune system for breast cancer detection. , 2015, , .		10
32	Computer-aided diagnosis of plus disease via measurement of vessel thickness in retinal fundus images of preterm infants. Computers in Biology and Medicine, 2015, 66, 316-329.	3.9	25
33	Development and validation of a fully automated system for detection and diagnosis of mammographic lesions. , 2014, 2014, 4667-70.		2
34	Measures of radial correlation and trend for classification of breast masses in mammograms. , 2013, 2013, 6490-3.		3
35	Automatic Detection of the Nipple in Screen-Film and Full-field Digital Mammograms Using a Novel Hessian-Based Method. Journal of Digital Imaging, 2013, 26, 948-957.	1.6	20
36	Masking procedures and measures of angular similarity for detection of bilateral asymmetry in mammograms. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
37	Estimation of the breast skin-line in mammograms using multidirectional Gabor filters. Computers in Biology and Medicine, 2013, 43, 1870-1881.	3.9	30
38	Metrological characterization of a diagnostic test extending the Receiving Operating Curve analysis using Supplement 2 recommendations. Measurement: Journal of the International Measurement Confederation, 2013, 46, 66-79.	2.5	4
39	Design and analysis of contour-independent features for classification of mammographic lesions. , 2013, , .		2
40	Characterization of the breast region for computer assisted Tabar masking of paired mammographic images. , 2012, , .		4
41	Bilateral asymmetry identification for the early detection of breast cancer. , 2011, , .		9
42	A study on a novel scoring system for the evaluation of expected mortality in ICU-patients. , 2011, , .		4
43	Automatic breast masses boundary extraction in digital mammography using spatial fuzzy c-means clustering and active contour models. , 2011, , .		10