Angelo Genovese

List of Publications by Year
in descending order

60 papers	976 citations	840119 11 h-index	713013 21 g-index
66 all docs	66 docs citations	66 times ranked	677 citing authors

#	ARTICLE	IF	CITATIONS
1	PalmNet: Gabor-PCA Convolutional Networks for Touchless Palmprint Recognition. IEEE Transactions on Information Forensics and Security, 2019, 14, 3160-3174.	4.5	141
2	A Comprehensive Survey of Databases and Deep Learning Methods for Cybersecurity and Intrusion Detection Systems. IEEE Systems Journal, 2021, 15, 1717-1731.	2.9	64
3	Biometric Recognition in Automated Border Control. ACM Computing Surveys, 2017, 49, 1-39.	16.1	62
4	A novel pore extraction method for heterogeneous fingerprint images using Convolutional Neural Networks. Pattern Recognition Letters, 2018, 113, 58-66.	2.6	62
5	Toward Unconstrained Fingerprint Recognition: A Fully Touchless 3-D System Based on Two Views on the Move. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 202-219.	5.9	59
6	Wildfire Smoke Detection Using Computational Intelligence Techniques Enhanced With Synthetic Smoke Plume Generation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1003-1012.	5.9	42
7	Contactless fingerprint recognition: A neural approach for perspective and rotation effects reduction. , 2013, , .		34
8	Wildfire smoke detection using computational intelligence techniques. , 2011, , .		33
9	Acute Lymphoblastic Leukemia Detection Based on Adaptive Unsharpening and Deep Learning. , 2021, , .		32
10	Age estimation based on face images and pre-trained convolutional neural networks. , 2017, , .		27
11	A Survey of Unsupervised Generative Models for Exploratory Data Analysis and Representation Learning. ACM Computing Surveys, 2022, 54, 1-40.	16.1	26
12	Touchless Palmprint Recognition Systems. Advances in Information Security, 2014, , .	0.9	24
13	A Decision Support System for Wind Power Production. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 290-304.	5.9	21
14	Histopathological Transfer Learning for Acute Lymphoblastic Leukemia Detection. , 2021, , .		19
15	Weight estimation from frame sequences using computational intelligence techniques. , 2012, , .		18
16	Towards touchless pore fingerprint biometrics: A neural approach. , 2016, , .		18
17	Fast 3-D fingertip reconstruction using a single two-view structured light acquisition. , 2011, , .		17
18	Towards Explainable Face Aging with Generative Adversarial Networks. , 2019, , .		17

#	Article	IF	Citations
19	IoT-based Architectures for Sensing and Local Data Processing in Ambient Intelligence: Research and Industrial Trends. , 2019, , .		15
20	Measurement of the principal singular point in contact and contactless fingerprint images by using computational intelligence techniques. , 2010, , .		13
21	Quality measurement of unwrapped three-dimensional fingerprints: A neural networks approach. , 2012, , .		13
22	Touchless Palmprint and Finger Texture Recognition: A Deep Learning Fusion Approach. , 2019, , .		12
23	Iris Segmentation: State of the Art and Innovative Methods. Intelligent Systems Reference Library, 2012, , 151-182.	1.0	12
24	Computational Intelligence in Cloud Computing. Topics in Intelligent Engineering and Informatics, 2020, , 111-127.	0.4	11
25	I-SOCIAL-DB: A labeled database of images collected from websites and social media for Iris recognition. Image and Vision Computing, 2021, 105, 104058.	2.7	11
26	Computational Intelligence for Biometric Applications: a Survey. International Journal of Computing, 0, , 40-49.	1.5	11
27	Accurate 3D fingerprint virtual environment for biometric technology evaluations and experiment design. , 2013, , .		10
28	Advanced design of Automated Border Control gates: Biometric system techniques and research trends. , 2015, , .		10
29	Automatic Classification of Acquisition Problems Affecting Fingerprint Images in Automated Border Controls. , 2015, , .		9
30	Virtual environment for synthetic smoke clouds generation. , 2011, , .		8
31	Two-view contactless fingerprint acquisition systems: A case study for clay artworks. , 2012, , .		8
32	3-D Granulometry Using Image Processing. IEEE Transactions on Industrial Informatics, 2019, 15, 1251-1264.	7.2	8
33	Privacy and Security in Environmental Monitoring Systems. , 2013, , 835-853.		7
34	Enhancing the Performance of Multimodal Automated Border Control Systems. , 2016, , .		7
35	Towards Explainable Semantic Segmentation for Autonomous Driving Systems by Multi-Scale Variational Attention. , 2021, , .		7
36	Low-cost volume estimation by two-view acquisitions: A computational intelligence approach. , 2012, , .		6

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37	Virtual environment for 3-D synthetic fingerprints. , 2012, , .		6
38	Applications of Computational Intelligence in Industrial and Environmental Scenarios. Studies in Computational Intelligence, 2018, , 29-46.	0.7	6
39	Iris Deidentification With High Visual Realism for Privacy Protection on Websites and Social Networks. IEEE Access, 2021, 9, 131995-132010.	2.6	6
40	A Scheme for Fingerphoto Recognition inÂSmartphones. Advances in Computer Vision and Pattern Recognition, 2019, , 49-66.	0.9	5
41	Palmprint Biometrics. Advances in Information Security, 2014, , 49-109.	0.9	5
42	Advanced 3D Deep Non-Local Embedded System for Self-Augmented X-Ray-based COVID-19 Assessment. , 2021, , .		5
43	A virtual environment for the simulation of 3D wood strands in multiple view systems for the particle size measurements. , 2013, , .		4
44	Improving OSB wood panel production by vision-based systems for granulometric estimation. , 2015, , .		4
45	Automated Border Control Systems: Biometric Challenges and Research Trends. Lecture Notes in Computer Science, 2015, , 11-20.	1.0	4
46	Enhancing fingerprint biometrics in Automated Border Control with adaptive cohorts. , 2016, , .		4
47	Computational intelligence for industrial and environmental applications. , 2016, , .		4
48	Advanced Biometric Technologies: Emerging Scenarios and Research Trends. Lecture Notes in Computer Science, 2018, , 324-352.	1.0	4
49	Analyzing images in frequency domain to estimate the quality of wood particles in OSB production. , 2016, , .		2
50	Towards the Prediction of Renewable Energy Unbalance in Smart Grids. , 2018, , .		2
51	Unsupervised Learning From Limited Available Data by Î²-NMF and Dual Autoencoder. , 2020, , .		2
52	On Approximating the Non-negative Rank: Applications to Unsupervised Image Reduction. , 2020, , .		2
53	Driver Attention Assistance by Pedestrian/Cyclist Distance Estimation from a Single RGB Image: A CNN-based Semantic Segmentation Approach. , 2021, , .		2
54	Photovoltaic Energy Prediction for New-Generation Cells with Limited Data: A Transfer Learning Approach. , 2022, , .		2

#	Article	IF	Citations
55	Advanced Car Driving Assistant System: A Deep Non-local Pipeline Combined with 1D Dilated CNN for Safety Driving. , 2021, , .		1
56	Biometric Systems. Advances in Information Security, 2014, , 7-32.	0.9	1
57	Privacy and Security in Environmental Monitoring Systems. , 2013, , 823-841.		0
58	IMS Technical Committee TC-22: Intelligent Measurement Systems. IEEE Instrumentation and Measurement Magazine, 2021, 24, 14-17.	1.2	0
59	Innovative Methods for Touchless and Less-Constrained Palmprint Recognition. Advances in Information Security, 2014, , 111-155.	0.9	0
60	Touchless and Less-Constrained Biometric Systems. Advances in Information Security, 2014, , 33-48.	0.9	0