

Fabio Scotti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4443622/publications.pdf>

Version: 2024-02-01

136
papers

2,914
citations

430442

18
h-index

329751

37
g-index

142
all docs

142
docs citations

142
times ranked

2009
citing authors

#	ARTICLE	IF	CITATIONS
1	All-IDB: The acute lymphoblastic leukemia image database for image processing. , 2011, , .		244
2	Deep-ECG: Convolutional Neural Networks for ECG biometric recognition. Pattern Recognition Letters, 2019, 126, 78-85.	2.6	198
3	PalmNet: Gabor-PCA Convolutional Networks for Touchless Palmprint Recognition. IEEE Transactions on Information Forensics and Security, 2019, 14, 3160-3174.	4.5	141
4	Privacy-preserving fingercode authentication. , 2010, , .		125
5	Composite real-time image processing for railways track profile measurement. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 559-564.	2.4	103
6	Morphological classification of blood leucocytes by microscope images. , 0, , .		89
7	Automatic morphological analysis for acute leukemia identification in peripheral blood microscope images. , 0, , .		88
8	Noisy iris segmentation with boundary regularization and reflections removal. Image and Vision Computing, 2010, 28, 270-277.	2.7	85
9	Artificial Intelligence-Based Sensors for Next Generation IoT Applications: A Review. IEEE Sensors Journal, 2021, 21, 24920-24932.	2.4	75
10	Robust Segmentation and Measurements Techniques of White Cells in Blood Microscope Images. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	74
11	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
12	A privacy-compliant fingerprint recognition system based on homomorphic encryption and Fingercode templates. , 2010, , .		62
13	Biometric Recognition in Automated Border Control. ACM Computing Surveys, 2017, 49, 1-39.	16.1	62
14	A novel pore extraction method for heterogeneous fingerprint images using Convolutional Neural Networks. Pattern Recognition Letters, 2018, 113, 58-66.	2.6	62
15	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
16	A preliminary study on continuous authentication methods for photoplethysmographic biometrics. , 2013, , .		48
17	Design of an Automatic Wood Types Classification System by Using Fluorescence Spectra. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 358-366.	3.3	47
18	A fuzzy approach to multimodal biometric continuous authentication. Fuzzy Optimization and Decision Making, 2008, 7, 243-256.	3.4	46

#	ARTICLE	IF	CITATIONS
19	Privacy-Aware Biometrics: Design and Implementation of a Multimodal Verification System. , 2008, , .		45
20	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
21	Quality Assessment of Biometric Systems: A Comprehensive Perspective Based on Accuracy and Performance Measurement. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1489-1496.	2.4	41
22	Fingerprint Biometrics via Low-cost Sensors and Webcams. , 2008, , .		39
23	ECG biometric recognition: Permanence analysis of QRS signals for 24 hours continuous authentication. , 2013, , .		34
24	Contactless fingerprint recognition: A neural approach for perspective and rotation effects reduction. , 2013, , .		34
25	Wildfire smoke detection using computational intelligence techniques. , 2011, , .		33
26	Acute Lymphoblastic Leukemia Detection Based on Adaptive Unsharpening and Deep Learning. , 2021, , .		32
27	Agent-based image iris segmentation and multiple views boundary refining. , 2009, , .		27
28	Age estimation based on face images and pre-trained convolutional neural networks. , 2017, , .		27
29	A Survey of Unsupervised Generative Models for Exploratory Data Analysis and Representation Learning. ACM Computing Surveys, 2022, 54, 1-40.	16.1	26
30	A Multi-biometric Verification System for the Privacy Protection of Iris Templates. Advances in Soft Computing, 2009, , 227-234.	0.4	26
31	Adaptive Reflection Detection and Location in Iris Biometric Images by Using Computational Intelligence Techniques. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1825-1833.	2.4	25
32	TAI-SARNET: Deep Transferred Atrous-Inception CNN for Small Samples SAR ATR. Sensors, 2020, 20, 1724.	2.1	23
33	A Decision Support System for Wind Power Production. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 290-304.	5.9	21
34	2M BeautyNet: Facial Beauty Prediction Based on Multi-Task Transfer Learning. IEEE Access, 2020, 8, 20245-20256.	2.6	21
35	Histopathological Transfer Learning for Acute Lymphoblastic Leukemia Detection. , 2021, , .		19
36	Fingerprint local analysis for high-performance minutiae extraction. , 2005, , .		18

#	ARTICLE	IF	CITATIONS
37	Weight estimation from frame sequences using computational intelligence techniques. , 2012, , .		18
38	Towards touchless pore fingerprint biometrics: A neural approach. , 2016, , .		18
39	Accuracy and performance of biometric systems. , 0, , .		17
40	A neural-based minutiae pair identification method for touch-less fingerprint images. , 2011, , .		17
41	Fast 3-D fingertip reconstruction using a single two-view structured light acquisition. , 2011, , .		17
42	Towards Explainable Face Aging with Generative Adversarial Networks. , 2019, , .		17
43	A Time-Varying Sliding Mode Control Method for Distributed-Mass Double Pendulum Bridge Crane With Variable Parameters. IEEE Access, 2021, 9, 75981-75992.	2.6	17
44	Photoplethysmographic biometrics: A comprehensive survey. Pattern Recognition Letters, 2022, 156, 119-125.	2.6	16
45	IoT-based Architectures for Sensing and Local Data Processing in Ambient Intelligence: Research and Industrial Trends. , 2019, , .		15
46	MFFA-SARNET: Deep Transferred Multi-Level Feature Fusion Attention Network with Dual Optimized Loss for Small-Sample SAR ATR. Remote Sensing, 2020, 12, 1385.	1.8	15
47	Asian Female Facial Beauty Prediction Using Deep Neural Networks via Transfer Learning and Multi-Channel Feature Fusion. IEEE Access, 2020, 8, 56892-56907.	2.6	15
48	Visual inspection of particle boards for quality assessment. , 2005, , .		14
49	Neural-based quality measurement of fingerprint images in contactless biometric systems. , 2010, , .		14
50	New trends in intelligent system design for embedded and measurement applications. IEEE Instrumentation and Measurement Magazine, 1999, 2, 36-44.	1.2	13
51	Measurement of the principal singular point in contact and contactless fingerprint images by using computational intelligence techniques. , 2010, , .		13
52	Quality measurement of unwrapped three-dimensional fingerprints: A neural networks approach. , 2012, , .		13
53	Global-Equivalent Sliding Mode Control Method for Bridge Crane. IEEE Access, 2021, 9, 160372-160382.	2.6	13
54	Biometric Privacy Protection: Guidelines and Technologies. Communications in Computer and Information Science, 2012, , 3-19.	0.4	13

#	ARTICLE	IF	CITATIONS
55	A methodological approach to multisensor classification for innovative laser material processing units. , 0, , .		12
56	Non-ideal iris segmentation using Polar Spline RANSAC and illumination compensation. Computer Vision and Image Understanding, 2019, 188, 102787.	3.0	12
57	Touchless Palmprint and Finger Texture Recognition: A Deep Learning Fusion Approach. , 2019, , .		12
58	Iris Segmentation: State of the Art and Innovative Methods. Intelligent Systems Reference Library, 2012, , 151-182.	1.0	12
59	Computational intelligence in industrial quality control. , 0, , .		11
60	Implementing FingerCode-based identity matching in the encrypted domain. , 2010, , .		11
61	Computational Intelligence in Cloud Computing. Topics in Intelligent Engineering and Informatics, 2020, , 111-127.	0.4	11
62	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
63	Computational Intelligence for Biometric Applications: a Survey. International Journal of Computing, 0, , 40-49.	1.5	11
64	Neural-based iterative approach for iris detection in iris recognition systems. , 2009, , .		10
65	Accurate 3D fingerprint virtual environment for biometric technology evaluations and experiment design. , 2013, , .		10
66	Advanced design of Automated Border Control gates: Biometric system techniques and research trends. , 2015, , .		10
67	Weakly Contrastive Learning via Batch Instance Discrimination and Feature Clustering for Small Sample SAR ATR. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	10
68	Composite techniques for quality analysis in automotive laser welding. , 0, , .		9
69	Computational intelligence techniques for reflections identification in iris biometric images. , 2007, , .		9
70	Image Processing for Granulometry Analysis via Neural Networks. , 2008, , .		9
71	Adaptive ECG biometric recognition: a study on re-enrollment methods for QRS signals. , 2014, , .		9
72	Automatic Classification of Acquisition Problems Affecting Fingerprint Images in Automated Border Controls. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
73	Facial Beauty Prediction via Local Feature Fusion and Broad Learning System. IEEE Access, 2020, 8, 218444-218457.	2.6	9
74	Fingerprint. , 2011, , 460-465.		9
75	Accuracy versus complexity in RBF neural networks. IEEE Instrumentation and Measurement Magazine, 2001, 4, 32-36.	1.2	8
76	Personal identification and verification using multimodal biometric data. , 2006, , .		8
77	A Fuzzy Approach to Multimodal Biometric Authentication. Lecture Notes in Computer Science, 2007, , 801-808.	1.0	8
78	Virtual environment for synthetic smoke clouds generation. , 2011, , .		8
79	Two-view contactless fingerprint acquisition systems: A case study for clay artworks. , 2012, , .		8
80	3-D Granulometry Using Image Processing. IEEE Transactions on Industrial Informatics, 2019, 15, 1251-1264.	7.2	8
81	An embedded system methodology for real-time analysis of railways track profile. , 0, , .		7
82	A Biometric Verification System Addressing Privacy Concerns. , 2007, , .		7
83	A Classification Method for Wood Types using Fluorescence Spectra. , 2008, , .		7
84	Privacy and Security in Environmental Monitoring Systems. , 2013, , 835-853.		7
85	Enhancing the Performance of Multimodal Automated Border Control Systems. , 2016, , .		7
86	Real-Time Segmentation Method of Lightweight Network For Finger Vein Using Embedded Terminal Technique. IEEE Access, 2021, 9, 303-316.	2.6	7
87	Biometric Recognition of PPG Cardiac Signals Using Transformed Spectrogram Images. Lecture Notes in Computer Science, 2021, , 244-257.	1.0	7
88	Low-cost volume estimation by two-view acquisitions: A computational intelligence approach. , 2012, , .		6
89	Virtual environment for 3-D synthetic fingerprints. , 2012, , .		6
90	Applications of Computational Intelligence in Industrial and Environmental Scenarios. Studies in Computational Intelligence, 2018, , 29-46.	0.7	6

#	ARTICLE	IF	CITATIONS
91	Iris Deidentification With High Visual Realism for Privacy Protection on Websites and Social Networks. IEEE Access, 2021, 9, 131995-132010.	2.6	6
92	Biometrics and Privacy. Recent Patents on Computer Science, 2008, 1, 98-109.	0.5	6
93	A high-level optimum design methodology for multimodal biometric systems. , 0, , .		5
94	Virtual environment for granulometry analysis. , 2008, , .		5
95	A low-cost neural-based approach for wood types classification. , 2009, , .		5
96	Mobile Communication Base Station Antenna Measurement Using Unmanned Aerial Vehicle. IEEE Access, 2019, 7, 119892-119903.	2.6	5
97	AntennaNet: Antenna Parameters Measuring Network for Mobile Communication Base Station Using UAV. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-17.	2.4	5
98	A Scheme for Fingerphoto Recognition in Smartphones. Advances in Computer Vision and Pattern Recognition, 2019, , 49-66.	0.9	5
99	Quality analysis measurement for laser cutting. , 0, , .		4
100	Toward real-time quality analysis measurement of metal laser cutting. , 0, , .		4
101	A training-time analysis of robustness in feed-forward neural networks. , 0, , .		4
102	Exploiting application locality to design low-complexity, highly performing, and power-aware embedded classifiers. IEEE Transactions on Neural Networks, 2006, 17, 745-754.	4.8	4
103	Genetic Techniques for Pattern Extraction in Particle Boards Images. , 2006, , .		4
104	A virtual environment for the simulation of 3D wood strands in multiple view systems for the particle size measurements. , 2013, , .		4
105	Automated Border Control Systems: Biometric Challenges and Research Trends. Lecture Notes in Computer Science, 2015, , 11-20.	1.0	4
106	Enhancing fingerprint biometrics in Automated Border Control with adaptive cohorts. , 2016, , .		4
107	Computational intelligence for industrial and environmental applications. , 2016, , .		4
108	Advanced Biometric Technologies: Emerging Scenarios and Research Trends. Lecture Notes in Computer Science, 2018, , 324-352.	1.0	4

#	ARTICLE	IF	CITATIONS
109	Privacy and security in environmental monitoring systems. , 2012, , .		3
110	An Intelligent Monitoring System for Assessing Bee Hive Health. IEEE Access, 2021, 9, 89009-89019.	2.6	3
111	Composite real-time image processing for railways track profile measurement. , 0, , .		2
112	Robust Segmentation and Measurements Techniques of White Cells in Blood Microscope Images. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	2
113	HeartCode: A novel binary ECG-based template. , 2014, , .		2
114	Analyzing images in frequency domain to estimate the quality of wood particles in OSB production. , 2016, , .		2
115	Unsupervised Learning From Limited Available Data by $\hat{\mu}^2$ -NMF and Dual Autoencoder. , 2020, , .		2
116	On Approximating the Non-negative Rank: Applications to Unsupervised Image Reduction. , 2020, , .		2
117	Driver Attention Assistance by Pedestrian/Cyclist Distance Estimation from a Single RGB Image: A CNN-based Semantic Segmentation Approach. , 2021, , .		2
118	Evolutionary Design of Information Systems Architectures. Lecture Notes in Computer Science, 2004, , 1-8.	1.0	2
119	Photovoltaic Energy Prediction for New-Generation Cells with Limited Data: A Transfer Learning Approach. , 2022, , .		2
120	A composite system design methodology for instrumentation and embedded system. , 0, , .		1
121	A multi-modal multi-paradigm agent-based approach to design scalable distributed biometric systems. , 0, , .		1
122	Special Section in IEEE Transactions on Instrumentation and Measurement on Biometric Instrumentation and Measurement. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 750-751.	2.4	1
123	High-level design of composite systems. Studies in Fuzziness and Soft Computing, 2004, , 183-220.	0.6	1
124	Biometrics and Privacy. Recent Patents on Computer Science, 2010, 1, 98-109.	0.5	1
125	Biometric Systems. Advances in Information Security, 2014, , 7-32.	0.9	1
126	AA ³ PNet: Antijam and Accurate Antenna Parameters Measuring Network for Mobile Communication Base Station Using UAV. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	2.4	1

#	ARTICLE	IF	CITATIONS
127	Exploiting Application Locality to Design Fast, Low Power, Low Complexity Neural Classifiers. , 0, , .		0
128	Message from the Chairpersons. , 2006, , .		0
129	2007 International Conference on Computational Intelligence and Security - Table of Contents. , 2007, , .		0
130	Message from the chairpersons. , 2010, , .		0
131	Welcome message from the chairpersons. , 2011, , .		0
132	Message from the chairpersons. , 2011, , .		0
133	Privacy and Security in Environmental Monitoring Systems. , 2013, , 823-841.		0
134	Fingerprint. , 2021, , 1-6.		0
135	Innovative Methods for Touchless and Less-Constrained Palmprint Recognition. Advances in Information Security, 2014, , 111-155.	0.9	0
136	Touchless and Less-Constrained Biometric Systems. Advances in Information Security, 2014, , 33-48.	0.9	0