

William Robson Schwartz

List of Publications by Year in descending order

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Version: 2024-02-01

117
papers

4,168
citations

304743

22
h-index

189892

50
g-index

121
all docs

121
docs citations

121
times ranked

3582
citing authors

#	ARTICLE	IF	CITATIONS
1	EKG-based heartbeat classification for arrhythmia detection: A survey. Computer Methods and Programs in Biomedicine, 2016, 127, 144-164.	4.7	613
2	Deep Representations for Iris, Face, and Fingerprint Spoofing Detection. IEEE Transactions on Information Forensics and Security, 2015, 10, 864-879.	6.9	405
3	Human detection using partial least squares analysis. , 2009, , .		368
4	A Robust Real-Time Automatic License Plate Recognition Based on the YOLO Detector. , 2018, , .		291
5	Learning Discriminative Appearance-Based Models Using Partial Least Squares. , 2009, , .		274
6	Multi-scale gray level co-occurrence matrices for texture description. Neurocomputing, 2013, 120, 336-345.	5.9	160
7	Face Spoofing Detection Through Visual Codebooks of Spectral Temporal Cubes. IEEE Transactions on Image Processing, 2015, 24, 4726-4740.	9.8	141
8	Histograms of Optical Flow Orientation and Magnitude and Entropy to Detect Anomalous Events in Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 673-682.	8.3	128
9	SkeleMotion: A New Representation of Skeleton Joint Sequences based on Motion Information for 3D Action Recognition. , 2019, , .		116
10	Dynamic Multicontext Segmentation of Remote Sensing Images Based on Convolutional Networks. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7503-7520.	6.3	102
11	Competition on counter measures to 2-D facial spoofing attacks. , 2011, , .		98
12	Using Visual Rhythms for Detecting Video-Based Facial Spoof Attacks. IEEE Transactions on Information Forensics and Security, 2015, 10, 1025-1038.	6.9	91
13	Learning Deep Off-the-Person Heart Biometrics Representations. IEEE Transactions on Information Forensics and Security, 2018, 13, 1258-1270.	6.9	80
14	Thermal-to-visible face recognition using partial least squares. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 431.	1.5	75
15	Face Identification Using Large Feature Sets. IEEE Transactions on Image Processing, 2012, 21, 2245-2255.	9.8	74
16	Face spoofing detection through partial least squares and low-level descriptors. , 2011, , .		69
17	An efficient and layout-independent automatic license plate recognition system based on the YOLO detector. IET Intelligent Transport Systems, 2021, 15, 483-503.	3.0	61
18	Video-Based Face Spoofing Detection through Visual Rhythm Analysis. , 2012, , .		50

#	ARTICLE	IF	CITATIONS
19	Convolutional neural networks for automatic meter reading. Journal of Electronic Imaging, 2019, 28, 1.	0.9	49
20	An Approach to Supporting Incremental Visual Data Classification. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 4-17.	4.4	48
21	Novel approaches to human activity recognition based on accelerometer data. Signal, Image and Video Processing, 2018, 12, 1387-1394.	2.7	47
22	Human activity recognition based on smartphone and wearable sensors using multiscale DCNN ensemble. Neurocomputing, 2021, 444, 226-243.	5.9	45
23	Benchmark for license plate character segmentation. Journal of Electronic Imaging, 2016, 25, 053034.	0.9	44
24	Adaptive edge-preserving image denoising using wavelet transforms. Pattern Analysis and Applications, 2013, 16, 567-580.	4.6	42
25	A mid-level video representation based on binary descriptors: A case study for pornography detection. Neurocomputing, 2016, 213, 102-114.	5.9	42
26	Histograms of Optical Flow Orientation and Magnitude to Detect Anomalous Events in Videos. , 2015, , .		38
27	A Robust and Scalable Approach to Face Identification. Lecture Notes in Computer Science, 2010, , 476-489.	1.3	35
28	A novel feature descriptor based on the shearlet transform. , 2011, , .		30
29	Evaluating the use of ECG signal in low frequencies as a biometry. Expert Systems With Applications, 2014, 41, 2309-2315.	7.6	30
30	BRAND: A robust appearance and depth descriptor for RGB-D images. , 2012, , .		28
31	A scalable and flexible framework for smart video surveillance. Computer Vision and Image Understanding, 2016, 144, 258-275.	4.7	26
32	Towards open-set face recognition using hashing functions. , 2017, , .		22
33	Discriminative Layer Pruning for Convolutional Neural Networks. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 828-837.	10.8	22
34	Learning to semantically segment high-resolution remote sensing images. , 2016, , .		20
35	Dimensionality reduction through PCA over SIFT and SURF descriptors. , 2012, , .		19
36	Evaluation of feature descriptors for texture classification. Journal of Electronic Imaging, 2012, 21, 023016.	0.9	17

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37	CBRA: Color-based ranking aggregation for person re-identification. , 2015, , .		16
38	License plate recognition based on temporal redundancy. , 2016, , .		16
39	IMPROVED FRACTAL IMAGE COMPRESSION BASED ON ROBUST FEATURE DESCRIPTORS. International Journal of Image and Graphics, 2011, 11, 571-587.	1.5	14
40	A complementary local feature descriptor for face identification. , 2012, , .		14
41	Optical Flow Co-occurrence Matrices: A novel spatiotemporal feature descriptor. , 2016, , .		14
42	Real-Time Automatic License Plate Recognition through Deep Multi-Task Networks. , 2018, , .		14
43	Kernel cross-view collaborative representation based classification for person re-identification. Journal of Visual Communication and Image Representation, 2019, 58, 304-315.	2.8	14
44	Face verification using large feature sets and one shot similarity. , 2011, , .		12
45	Semi-Supervised Dimensionality Reduction based on Partial Least Squares for Visual Analysis of High Dimensional Data. Computer Graphics Forum, 2012, 31, 1345-1354.	3.0	11
46	Smart surveillance framework: A versatile tool for video analysis. , 2014, , .		10
47	Kernel Hierarchical PCA for person re-identification. , 2016, , .		10
48	Kernel Partial Least Squares for person re-identification. , 2016, , .		10
49	Deep network compression based on partial least squares. Neurocomputing, 2020, 406, 234-243.	5.9	10
50	Robust Human Detection under Occlusion by Integrating Face and Person Detectors. Lecture Notes in Computer Science, 2009, , 970-979.	1.3	10
51	Activity Recognition Based on a Magnitude-Oriented Stream Network. , 2017, , .		9
52	Face Spoofing Detection on Low-Power Devices Using Embeddings with Spatial and Frequency-Based Descriptors. Lecture Notes in Computer Science, 2019, , 187-197.	1.3	8
53	Coffee Crop Recognition Using Multi-scale Convolutional Neural Networks. Lecture Notes in Computer Science, 2015, , 67-74.	1.3	8
54	Textured Image Segmentation Based on Spatial Dependence using a Markov Random Field Model. , 2006, , .		7

#	ARTICLE	IF	CITATIONS
55	Predominant color name indexing structure for person re-identification. , 2016, , .		7
56	Re-identifying People Based on Indexing Structure and Manifold Appearance Modeling. , 2013, , .		6
57	Extending Face Identification to Open-Set Face Recognition. , 2014, , .		6
58	Hyperspectral image interpretation based on partial least squares. , 2015, , .		6
59	Appearance-based person re-identification by intra-camera discriminative models and rank aggregation. , 2015, , .		6
60	Classification schemes based on Partial Least Squares for face identification. Journal of Visual Communication and Image Representation, 2015, 32, 170-179.	2.8	6
61	Person-Specific Subspace Analysis for Unconstrained Familiar Face Identification. , 2012, , .		6
62	3D Searchless Fractal Video Encoding at Low Bit Rates. Journal of Mathematical Imaging and Vision, 2013, 45, 239-250.	1.3	5
63	Fast and scalable enrollment for face identification based on Partial Least Squares. , 2013, , .		5
64	Learning to hash faces using large feature vectors. , 2015, , .		5
65	Partial least squares for face hashing. Neurocomputing, 2016, 213, 34-47.	5.9	5
66	Latent HyperNet: Exploring the Layers of Convolutional Neural Networks. , 2018, , .		5
67	Face spoofing detection via ensemble of classifiers toward low-power devices. Pattern Analysis and Applications, 2021, 24, 511-521.	4.6	5
68	An Adaptive Vehicle License Plate Detection at Higher Matching Degree. Lecture Notes in Computer Science, 2014, , 454-461.	1.3	5
69	Fast Low Bit-Rate 3D Searchless Fractal Video Encoding. , 2011, , .		4
70	Scalable people re-identification based on a one-against-some classification scheme. , 2012, , .		4
71	A data-driven detection optimization framework. Neurocomputing, 2013, 104, 35-49.	5.9	4
72	Oblique random forest based on partial least squares applied to pedestrian detection. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
73	Multiscale DCNN Ensemble Applied to Human Activity Recognition Based on Wearable Sensors. , 2018, , .		4
74	Multi-task Learning for Low-Resolution License Plate Recognition. Lecture Notes in Computer Science, 2019, , 251-261.	1.3	4
75	AN IMPROVED VIEW FRUSTUM CULLING METHOD USING OCTREES FOR 3D REAL-TIME RENDERING. International Journal of Image and Graphics, 2013, 13, 1350009.	1.5	3
76	Linear dimensionality reduction applied to scale invariant feature transformation and speeded up robust feature descriptors. Journal of Electronic Imaging, 2014, 23, 033017.	0.9	3
77	Detection of Groups of People in Surveillance Videos Based on Spatio-Temporal Clues. Lecture Notes in Computer Science, 2014, , 948-955.	1.3	3
78	Change detection based on features invariant to monotonic transforms and spatial constrained matching. , 2014, , .		3
79	Stage-Wise Neural Architecture Search. , 2021, , .		3
80	A Non-parametric Approach to Detect Changes in Aerial Images. Lecture Notes in Computer Science, 2015, , 116-124.	1.3	3
81	Unconstrained Face Identification using Ensembles trained on Clustered Data. , 2020, , .		3
82	Appearance and Geometry Fusion for Enhanced Dense 3D Alignment. , 2012, , .		2
83	Face Verification Based on Relational Disparity Features and Partial Least Squares Models. , 2017, , .		2
84	Pyramidal Zernike Over Time: A Spatiotemporal Feature Descriptor Based on Zernike Moments. Lecture Notes in Computer Science, 2018, , 77-85.	1.3	2
85	Novel Anomalous Event Detection based on Human-object Interactions. , 2018, , .		2
86	Person Re-identification Using Partial Least Squares Appearance Modeling. Lecture Notes in Computer Science, 2013, , 382-390.	1.3	2
87	Face Attributes as Cues for Deep Face Recognition Understanding. , 2020, , .		2
88	Detecting humans under partial occlusion using Markov logic networks. , 2010, , .		1
89	Fast pedestrian detection based on a partial least squares cascade. , 2013, , .		1
90	A topology-based approach to computing neighborhood-of-interest points using the Morse complex. Journal of Visual Communication and Image Representation, 2015, 30, 299-311.	2.8	1

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91	A verify-correct approach to person re-identification based on Partial Least Squares signatures. , 2015, , .		1
92	Change detection based on features invariant to monotonic transforms and spatially constrained matching. Journal of Electronic Imaging, 2016, 25, 013001.	0.9	1
93	Boosted Projection: An Ensemble of Transformation Models. Lecture Notes in Computer Science, 2018, , 331-338.	1.3	1
94	Point-Placement Techniques and Temporal Self-Similarity Maps for Visual Analysis of Surveillance Videos. , 2019, , .		1
95	Covariance-free Partial Least Squares: An Incremental Dimensionality Reduction Method. , 2021, , .		1
96	Kernel multiblock partial least squares for a scalable and multicamera person reidentification system. Journal of Electronic Imaging, 2018, 27, 1.	0.9	1
97	Topographic Feature Identification Based on Triangular Meshes. Lecture Notes in Computer Science, 2001, , 621-629.	1.3	1
98	Video Compression and Retrieval of Moving Object Location Applied to Surveillance. Lecture Notes in Computer Science, 2009, , 906-916.	1.3	1
99	Spatial Pyramid Matching for Finger Spelling Recognition in Intensity Images. Lecture Notes in Computer Science, 2014, , 629-636.	1.3	1
100	Person Re-Identification Based on Weighted Indexing Structures. Lecture Notes in Computer Science, 2014, , 359-366.	1.3	1
101	Faster Approximations of Shortest Geodesic Paths on Polyhedra Through Adaptive Priority Queue. , 2015, , .		1
102	Noisy Character Recognition Using Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2018, , 499-507.	1.3	1
103	Scalar image interest point detection and description based on discrete Morse theory and geometric descriptors. , 2012, , .		0
104	An Optimized Sliding Window Approach to Pedestrian Detection. , 2014, , .		0
105	Partial Least Squares Image Clustering. , 2015, , .		0
106	A late fusion approach to combine multiple pedestrian detectors. , 2016, , .		0
107	Assigning Relative Importance to Scene Elements. , 2017, , .		0
108	Content-Based Multi-Camera Video Alignment using Accelerometer Data. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
109	Face Verification: Strategies for Employing Deep Models. , 2018, , .		0
110	Magnitude-Orientation Stream network and depth information applied to activity recognition. Journal of Visual Communication and Image Representation, 2019, 63, 102596.	2.8	0
111	Cycleptz: The Learning-Based Control Method For Master-Slave Camera Systems. , 2020, , .		0
112	A content-based late fusion approach applied to pedestrian detection. Journal of Visual Communication and Image Representation, 2021, 77, 103091.	2.8	0
113	Appearance-Based Human Detection. , 2021, , 57-59.		0
114	Scalable Feature Extraction for Visual Surveillance. Lecture Notes in Computer Science, 2014, , 375-382.	1.3	0
115	Fast Scalable Coding based on a 3D Low Bit Rate Fractal Video Encoder. , 2017, , .		0
116	Statistical Measures from Co-occurrence of Codewords for Action Recognition. , 2018, , .		0
117	Single-Shot Person Re-Identification Combining Similarity Metrics and Support Vectors. , 2018, , .		0