

Jacob Scharcanski

List of Publications by Year in descending order

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121
papers

2,127
citations

279487
23
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122
all docs

122
docs citations

122
times ranked

1873
citing authors

#	ARTICLE	IF	CITATIONS
1	Part-Based Object Tracking Using Multiple Adaptive Correlation Filters. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	12
2	Some Information Geometric Aspects of Cyber Security by Face Recognition. Entropy, 2021, 23, 878.	1.1	1
3	Identifying the most relevant tablet regions in the image detection of counterfeit medicines. Journal of Pharmaceutical and Biomedical Analysis, 2021, 205, 114336.	1.4	1
4	TC-17 Progress: Advances in Materials and Measurements. IEEE Instrumentation and Measurement Magazine, 2021, 24, 11-13.	1.2	0
5	Object tracking scheme using part-based correlation filters. , 2020, , .		1
6	An Adaptive Face Tracker with Application in Yawning Detection. Sensors, 2020, 20, 1494.	2.1	1
7	On the Data Conditioning for Facial Spoofing Attacks Detection using Deep Learning. , 2019, , .		5
8	Detection of presentation attacks using imaging and liveness attributes. Electronics Letters, 2019, 55, 1226-1229.	0.5	5
9	Dictionaries of deep features for land-use scene classification of very high spatial resolution images. Pattern Recognition, 2019, 89, 32-44.	5.1	33
10	Macroscopic Pigmented Skin Lesion Prescreening. , 2019, , 561-573.		0
11	An iterative approach for obtaining multi-scale superpixels based on stochastic graph contraction operations. Expert Systems With Applications, 2018, 102, 57-69.	4.4	3
12	A new method for building adaptive Bayesian trees and its application in color image segmentation. Expert Systems With Applications, 2018, 98, 57-71.	4.4	6
13	Classify-normalize-classify. Earth Science Informatics, 2018, 11, 77-97.	1.6	1
14	Scalable image segmentation via decoupled sub-graph compression. Pattern Recognition, 2018, 78, 228-241.	5.1	3
15	Face recognition based on texture information and geodesic distance approximations between multivariate normal distributions. Measurement Science and Technology, 2018, 29, 114001.	1.4	6
16	Incremental multi-model dictionary learning for face tracking. , 2018, , .		4
17	Image-based approach for detecting vehicles in user-defined virtual inductive loops. Journal of Electronic Imaging, 2018, 27, 1.	0.5	0
18	Facial biometrics and applications. IEEE Instrumentation and Measurement Magazine, 2017, 20, 4-30.	1.2	9

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19	A simple weighted thresholding method for the segmentation of pigmented skin lesions in macroscopic images. Pattern Recognition, 2017, 64, 92-104.	5.1	52
20	Motion Detection and Compensation of Affine Deformations in Infrared Retinal Videos. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 33-44.	2.4	2
21	Stochastic shadow detection using a hypergraph partitioning approach. Pattern Recognition, 2017, 63, 30-44.	5.1	19
22	Face recognition based on geodesic distance approximations between multivariate normal distributions. , 2017, , .		2
23	Bringing Vision-Based Measurements into our Daily Life: A Grand Challenge for Computer Vision Systems. Frontiers in ICT, 2016, 3, .	3.6	5
24	Segmentation and classification of melanocytic skin lesions using local and contextual features. , 2016, , .		2
25	Shadow detection in camera-based vehicle detection: survey and analysis. Journal of Electronic Imaging, 2016, 25, 051205.	0.5	11
26	Segmentation of melanocytic skin lesions using feature learning and dictionaries. Expert Systems With Applications, 2016, 56, 300-309.	4.4	36
27	Yawning Detection Using Embedded Smart Cameras. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 570-582.	2.4	88
28	Image segmentation via multi-scale stochastic regional texture appearance models. Computer Vision and Image Understanding, 2016, 142, 23-36.	3.0	13
29	Lung nodule segmentation in chest computed tomography using a novel background estimation method. Quantitative Imaging in Medicine and Surgery, 2016, 6, 16-24.	1.1	12
30	A fast algorithm for tracking moving objects based on spatio-temporal video segmentation and cluster ensembles. , 2015, , .		0
31	Automatic Framework for Extraction and Characterization of Wetting Front Propagation Using Tomographic Image Sequences of Water Infiltrated Soils. PLoS ONE, 2015, 10, e0115218.	1.1	3
32	Customized Orthogonal Locality Preserving Projections With Soft-Margin Maximization for Face Recognition. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2417-2426.	2.4	39
33	Stochastic color image segmentation using spatial constraints. , 2015, , .		1
34	A novel video based system for detecting and counting vehicles at user-defined virtual loops. Expert Systems With Applications, 2015, 42, 1845-1856.	4.4	45
35	Phase-shift and information measures for retinal motion detection and compensation with optimized parameter selection. , 2014, , .		1
36	Remote visual monitoring of analogue meter displays using deformable models. IET Science, Measurement and Technology, 2014, 8, 228-235.	0.9	7

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37	KSGphysio - Kinect serious game for physiotherapy. , 2014, , .		23
38	Segmentation of Pigmented Melanocytic Skin Lesions Based on Learned Dictionaries and Normalized Graph Cuts. , 2014, , .		4
39	Segmentation of pigmented skin lesions using Non-negative Matrix Factorization. , 2014, , .		7
40	Data and Information Dimensionality in Non-cooperative Face Recognition. Lecture Notes in Electrical Engineering, 2014, , 1-35.	0.3	3
41	Texture Information in Melanocytic Skin Lesion Analysis Based on Standard Camera Images. Series in Bioengineering, 2014, , 221-242.	0.3	2
42	Audiovisual Voice Activity Detection Based on Microphone Arrays and Color Information. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 147-156.	7.3	21
43	Motion detection and compensation in infrared retinal image sequences. Computerized Medical Imaging and Graphics, 2013, 37, 377-385.	3.5	8
44	Multi-scale stochastic color texture models for skin region segmentation and gesture detection. , 2013, , .		6
45	Macroscopic Pigmented Skin Lesion Segmentation and Its Influence on Lesion Classification and Diagnosis. Lecture Notes in Computational Vision and Biomechanics, 2013, , 15-39.	0.5	19
46	A coarse-to-fine approach for segmenting melanocytic skin lesions in standard camera images. Computer Methods and Programs in Biomedicine, 2013, 112, 684-693.	2.6	22
47	Feature selection for face recognition based on multi-objective evolutionary wrappers. Expert Systems With Applications, 2013, 40, 5077-5084.	4.4	76
48	Grading the Severity of Diabetic Macular Edema Cases Based on Color Eye Fundus Images. Lecture Notes in Computational Vision and Biomechanics, 2013, , 109-127.	0.5	3
49	A two-stage approach for discriminating melanocytic skin lesions using standard cameras. Expert Systems With Applications, 2013, 40, 4054-4064.	4.4	39
50	A morphologic two-stage approach for automated optic disk detection in color eye fundus images. Pattern Recognition Letters, 2013, 34, 476-485.	2.6	59
51	Tracking and counting vehicles in traffic video sequences using particle filtering. , 2013, , .		27
52	A novel 3D approach for the extraction of the wetting front in CT images of soil profiles. , 2013, , .		3
53	Natural scene segmentation based on a stochastic texture region merging approach. , 2013, , .		3
54	Image segmentation using wavelet coefficients and geodesic distance between elliptical distributions for applications in street view. , 2012, , .		0

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55	An evolutionary wrapper for feature selection in face recognition applications. , 2012, , .		8
56	Monte Carlo despeckling of transrectal ultrasound images of the prostate. , 2012, 22, 768-775.		9
57	A new approach for automatic visual monitoring of analog meter displays. , 2012, , .		2
58	Hysteroscopy video summarization and browsing by estimating the physician's attention on video segments. Medical Image Analysis, 2012, 16, 160-176.	7.0	8
59	Enhancing the Performance of Active Shape Models in Face Recognition Applications. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2330-2333.	2.4	37
60	An ICA-based method for the segmentation of pigmented skin lesions in macroscopic images. , 2011, 2011, 5993-6.		21
61	Color-based lips extraction applied to voice activity detection. , 2011, , .		7
62	An approach for fast human head pose estimation. Proceedings of SPIE, 2011, , .	0.8	3
63	A Particle-Filtering Approach for Vehicular Tracking Adaptive to Occlusions. IEEE Transactions on Vehicular Technology, 2011, 60, 381-389.	3.9	49
64	Automatic Skin Lesion Segmentation via Iterative Stochastic Region Merging. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 929-936.	3.6	104
65	Fisher's Tippet Region-Merging Approach to Transrectal Ultrasound Prostate Lesion Segmentation. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 900-907.	3.6	6
66	Fovea center detection based on the retina anatomy and mathematical morphology. Computer Methods and Programs in Biomedicine, 2011, 104, 397-409.	2.6	71
67	Introduction to the special issue on unconstrained biometrics: advances and trends. Signal, Image and Video Processing, 2011, 5, 399-400.	1.7	3
68	Automated prescreening of pigmented skin lesions using standard cameras. Computerized Medical Imaging and Graphics, 2011, 35, 481-491.	3.5	113
69	An user identity authentication scheme adaptive to changes in face appearance. , 2011, , .		1
70	A coarse-to-fine strategy for automatically detecting exudates in color eye fundus images. Computerized Medical Imaging and Graphics, 2010, 34, 228-235.	3.5	138
71	Interactive Modeling and Evaluation of Tumor Growth. Journal of Digital Imaging, 2010, 23, 755-768.	1.6	6
72	Segmentation of the optic disk in color eye fundus images using an adaptive morphological approach. Computers in Biology and Medicine, 2010, 40, 124-137.	3.9	144

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73	Gop structure adaptive to the video content for efficient H.264/AVC encoding. , 2010, , .		25
74	Shading Attenuation in Human Skin Color Images. Lecture Notes in Computer Science, 2010, , 190-198.	1.0	30
75	Pigmented skin lesion segmentation on macroscopic images. , 2010, , .		28
76	Video Segmentation Based on Motion Coherence of Particles in a Video Sequence. IEEE Transactions on Image Processing, 2010, 19, 1036-1049.	6.0	18
77	Estimation of the head pose based on monocular images. , 2010, , .		1
78	Sharpening Dermatological Color Images in the Wavelet Domain. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 4-13.	7.3	7
79	Phase-Adaptive Superresolution of Mammographic Images Using Complex Wavelets. IEEE Transactions on Image Processing, 2009, 18, 1140-1146.	6.0	10
80	Lossless and near-lossless digital angiography coding using a two-stage motion compensation approach. Computerized Medical Imaging and Graphics, 2008, 32, 379-387.	3.5	3
81	Measuring Statistical Geometric Properties of Tomographic Images of Soils. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2502-2512.	2.4	5
82	Quantitative Parameters for the Assessment of Renal Scintigraphic Images. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3438-41.	0.5	6
83	A Wavelet-Based Approach for Analyzing Industrial Stochastic Textures With Applications. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 10-22.	3.4	8
84	Context Adaptive Lossless and Near-Lossless Coding for Digital Angiographies. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5666-9.	0.5	1
85	Unsupervised Identification of Coherent Motion in Video. , 2007, , .		0
86	Evaluating the mid-secretory endometrium appearance using hysteroscopic digital video summarization. Image and Vision Computing, 2007, 25, 70-77.	2.7	5
87	Lossless and Near-Lossless Compression for Mammographic Digital Images. , 2006, , .		5
88	A framework for medical visual information exchange on the WEB. Computers in Biology and Medicine, 2006, 36, 327-338.	3.9	9
89	Denoising and enhancing digital mammographic images for visual screening. Computerized Medical Imaging and Graphics, 2006, 30, 243-254.	3.5	47
90	Medical imaging and graphics in SIBGRAPI/SIACG. Computerized Medical Imaging and Graphics, 2006, 30, 215-216.	3.5	0

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91	Stochastic Texture Analysis for Measuring Sheet Formation Variability in the Industry. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1778-1785.	2.4	14
92	Hierarchical Summarization of Diagnostic Hysteroscopy Videos. , 2006, , .		8
93	Stochastic texture analysis for monitoring stochastic processes in industry. Pattern Recognition Letters, 2005, 26, 1701-1709.	2.6	26
94	Robust watershed segmentation using wavelets. Image and Vision Computing, 2005, 23, 661-669.	2.7	56
95	Diagnostic Hysteroscopy Video Summarization and Browsing. , 2005, 2005, 5680-3.		6
96	A lossless compression approach for mammographic digital images based on the Delaunay triangulation. , 2005, , .		5
97	Content-Based Diagnostic Hysteroscopy Summaries for Video Browsing. , 2005, , .		5
98	Wavelet transform approach to adaptive image denoising and enhancement. Journal of Electronic Imaging, 2004, 13, 278.	0.5	15
99	Digital hysteroscopy: A new diagnostic method for the mid-secretery endometrium. Fertility and Sterility, 2004, 82, S295.	0.5	2
100	Making Medical Visual Information Available on the WEB. Revista De Informatica Teorica E Aplicada, 2004, 11, 33-48.	0.2	0
101	Adaptive image denoising and edge enhancement in scale-space using the wavelet transform. Pattern Recognition Letters, 2003, 24, 965-971.	2.6	30
102	Information geometric similarity measurement for near-random stochastic processes. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2003, 33, 435-440.	3.4	6
103	Simulating Effects of Fiber Crimp, Flocculation, Density, and Orientation on Structure Statistics of Stochastic Fiber Networks. Simulation, 2002, 78, 389-395.	1.1	8
104	Adaptive image denoising using scale and space consistency. IEEE Transactions on Image Processing, 2002, 11, 1092-1101.	6.0	51
105	Echocardiographic Image Sequence Segmentation and Analysis Using Self-Organizing Maps. Journal of Signal Processing Systems, 2002, 32, 135-145.	1.0	19
106	Wavelet-based method for image filtering using scale-space continuity. Journal of Electronic Imaging, 2001, 10, 511.	0.5	1
107	Stochastic texture image estimators for local spatial anisotropy and its variability. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 971-979.	2.4	21
108	Fetal echocardiographic image segmentation using neural networks. , 1999, , .		8

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109	Monitoring the Quality of Non-Woven Textiles using Stochastic Texture Discrimination. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 121-126.	0.4	0
110	Neural network model for paper-forming process. IEEE Transactions on Industry Applications, 1997, 33, 826-839.	3.3	7
111	Edge detection of color images using directional operators. IEEE Transactions on Circuits and Systems for Video Technology, 1997, 7, 397-401.	5.6	75
112	Texture analysis for estimating spatial variability and anisotropy in planar stochastic structures. Optical Engineering, 1996, 35, 2302.	0.5	23
113	Representing the color aspect of texture images. Pattern Recognition Letters, 1994, 15, 191-197.	2.6	23
114	Colour quantisation for colour texture analysis. IEE Proceedings E: Computers and Digital Techniques, 1993, 140, 109.	0.1	8
115	Near optimum filtering of quantized signals. , 0, , .		0
116	Neural network model for paper forming process. , 0, , .		4
117	Echocardiographic image sequence segmentation using self-organizing maps. , 0, , .		0
118	Adaptive image denoising in scale-space using the wavelet transform. , 0, , .		6
119	Robust watershed segmentation using the wavelet transform. , 0, , .		5
120	Semiautomatic hysteroscopic video summarization. , 0, , .		0
121	An adaptive approach to mammographic image denoising and enhancement. , 0, , .		0