

Mehemmed Emre Celebi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127
papers

5,267
citations

34
h-index

70
g-index

142
ext. papers

6,459
ext. citations

3.6
avg, IF

6.05
L-index

#	Paper	IF	Citations
127	A comparative study of efficient initialization methods for the k-means clustering algorithm. <i>Expert Systems With Applications</i> , 2013 , 40, 200-210	7.8	570
126	A methodological approach to the classification of dermoscopy images. <i>Computerized Medical Imaging and Graphics</i> , 2007 , 31, 362-73	7.6	419
125	Skin lesion analysis toward melanoma detection: A challenge at the 2017 International symposium on biomedical imaging (ISBI), hosted by the international skin imaging collaboration (ISIC) 2018 ,		419
124	Lesion border detection in dermoscopy images. <i>Computerized Medical Imaging and Graphics</i> , 2009 , 33, 148-53	7.6	286
123	Border detection in dermoscopy images using statistical region merging. <i>Skin Research and Technology</i> , 2008 , 14, 347-53	1.9	263
122	An improved Internet-based melanoma screening system with dermatologist-like tumor area extraction algorithm. <i>Computerized Medical Imaging and Graphics</i> , 2008 , 32, 566-79	7.6	170
121	Unsupervised border detection in dermoscopy images. <i>Skin Research and Technology</i> , 2007 , 13, 454-62	1.9	153
120	Results of the 2016 International Skin Imaging Collaboration International Symposium on Biomedical Imaging challenge: Comparison of the accuracy of computer algorithms to dermatologists for the diagnosis of melanoma from dermoscopic images. <i>Journal of the American Academy of Dermatology</i> , 2018 , 78, 270-277.e1	4.5	151
119	Hair removal methods: A comparative study for dermoscopy images. <i>Biomedical Signal Processing and Control</i> , 2011 , 6, 395-404	4.9	124
118	Anisotropic Mean Shift Based Fuzzy C-Means Segmentation of Dermoscopy Images. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2009 , 3, 26-34	7.5	122
117	Lesion border detection in dermoscopy images using ensembles of thresholding methods. <i>Skin Research and Technology</i> , 2013 , 19, e252-8	1.9	116
116	Border detection in dermoscopy images using hybrid thresholding on optimized color channels. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 105-15	7.6	113
115	Automatic detection of blue-white veil and related structures in dermoscopy images. <i>Computerized Medical Imaging and Graphics</i> , 2008 , 32, 670-7	7.6	113
114	Improving the performance of k-means for color quantization. <i>Image and Vision Computing</i> , 2011 , 29, 260-271	3.7	104
113	Mean shift based gradient vector flow for image segmentation. <i>Computer Vision and Image Understanding</i> , 2013 , 117, 1004-1016	4.3	86
112	Gradient vector flow with mean shift for skin lesion segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 121-7	7.6	79
111	Real-time implementation of order-statistics-based directional filters. <i>IET Image Processing</i> , 2009 , 3, 1-9	1.7	76

110	Colour and contrast enhancement for improved skin lesion segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 99-104	7.6	74
109	Four-class classification of skin lesions with task decomposition strategy. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 274-83	5	73
108	Improving dermoscopy image classification using color constancy. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1146-52	7.2	72
107	An ensemble classification approach for melanoma diagnosis. <i>Memetic Computing</i> , 2014 , 6, 233-240	3.4	72
106	Pattern classification of dermoscopy images: A perceptually uniform model. <i>Pattern Recognition</i> , 2013 , 46, 86-97	7.7	70
105	Dermoscopy Image Analysis: Overview and Future Directions. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 474-478	7.2	62
104	A Survey of Feature Extraction in Dermoscopy Image Analysis of Skin Cancer. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 1096-1109	7.2	62
103	Lesion border detection in dermoscopy images using dynamic programming. <i>Skin Research and Technology</i> , 2011 , 17, 91-100	1.9	58
102	. <i>IEEE Systems Journal</i> , 2014 , 8, 980-984	4.3	56
101	Computer-based classification of dermoscopy images of melanocytic lesions on acral volar skin. <i>Journal of Investigative Dermatology</i> , 2008 , 128, 2049-54	4.3	52
100	Melanoma recognition framework based on expert definition of ABCD for dermoscopic images. <i>Skin Research and Technology</i> , 2013 , 19, e93-102	1.9	46
99	Modified watershed technique and post-processing for segmentation of skin lesions in dermoscopy images. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 116-20	7.6	45
98	Detection of atypical texture features in early malignant melanoma. <i>Skin Research and Technology</i> , 2010 , 16, 60-5	1.9	39
97	A feature-preserving hair removal algorithm for dermoscopy images. <i>Skin Research and Technology</i> , 2013 , 19, e27-36	1.9	38
96	Polyp detection in Wireless Capsule Endoscopy videos based on image segmentation and geometric feature 2010 ,		38
95	Development of a clinically oriented system for melanoma diagnosis. <i>Pattern Recognition</i> , 2017 , 69, 270-285		36
94	Skin tumor area extraction using an improved dynamic programming approach. <i>Skin Research and Technology</i> , 2012 , 18, 133-42	1.9	34
93	DETERMINISTIC INITIALIZATION OF THE K-MEANS ALGORITHM USING HIERARCHICAL CLUSTERING. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2012 , 26, 1250018	1.1	34

92	Image synthesis with adversarial networks: A comprehensive survey and case studies. <i>Information Fusion</i> , 2021 , 72, 126-146	16.7	32
91	A perceptually oriented method for contrast enhancement and segmentation of dermoscopy images. <i>Skin Research and Technology</i> , 2013 , 19, e490-7	1.9	31
90	Breast mass segmentation using region-based and edge-based methods in a 4-stage multiscale system. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 204-214	4.9	28
89	Automated color calibration method for dermoscopy images. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 89-98	7.6	28
88	Computer-aided pattern classification system for dermoscopy images. <i>Skin Research and Technology</i> , 2012 , 18, 278-89	1.9	26
87	Three-phase general border detection method for dermoscopy images using non-uniform illumination correction. <i>Skin Research and Technology</i> , 2012 , 18, 290-300	1.9	26
86	An improved objective evaluation measure for border detection in dermoscopy images. <i>Skin Research and Technology</i> , 2009 , 15, 444-50	1.9	26
85	Watershed segmentation of dermoscopy images using a watershed technique. <i>Skin Research and Technology</i> , 2010 , 16, 378-84	1.9	25
84	Hard versus fuzzy c-means clustering for color quantization. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011 , 2011,	1.9	22
83	On Euclidean norm approximations. <i>Pattern Recognition</i> , 2011 , 44, 278-283	7.7	21
82	. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 779-790	8.3	20
81	DermoDeep-A classification of melanoma-nevus skin lesions using multi-feature fusion of visual features and deep neural network. <i>Multimedia Tools and Applications</i> , 2019 , 78, 23559-23580	2.5	19
80	Fast and accurate border detection in dermoscopy images using statistical region merging 2007 ,		19
79	Face Recognition in the Scrambled Domain via Saliency-Aware Ensembles of Many Kernels. <i>IEEE Transactions on Information Forensics and Security</i> , 2016 , 11, 1807-1817	8	19
78	Explainable skin lesion diagnosis using taxonomies. <i>Pattern Recognition</i> , 2021 , 110, 107413	7.7	19
77	An effective real-time color quantization method based on divisive hierarchical clustering. <i>Journal of Real-Time Image Processing</i> , 2015 , 10, 329-344	1.9	18
76	Melanoma detection algorithm based on feature fusion. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 2653-6	0.9	18
75	Advances in Data Preprocessing for Biomedical Data Fusion: An Overview of the Methods, Challenges, and Prospects. <i>Information Fusion</i> , 2021 , 76, 376-421	16.7	18

74	WN-based approach to melanoma diagnosis from dermoscopy images. <i>IET Image Processing</i> , 2017 , 11, 475-482	1.7	17
73	Robust codebook-based video background subtraction 2010 ,		17
72	Detection of basal cell carcinoma using color and histogram measures of semitranslucent areas. <i>Skin Research and Technology</i> , 2009 , 15, 283-7	1.9	17
71	Color identification in dermoscopy images using Gaussian mixture models 2014 ,		16
70	Unified approach for lesion border detection based on mixture modeling and local entropy thresholding. <i>Skin Research and Technology</i> , 2013 , 19, 314-9	1.9	16
69	Classification of melanocytic skin lesions from non-melanocytic lesions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5407-10	0.9	16
68	Robust border detection in dermoscopy images using threshold fusion 2010 ,		16
67	Approximate lesion localization in dermoscopy images. <i>Skin Research and Technology</i> , 2009 , 15, 314-22	1.9	16
66	Contrast enhancement in dermoscopy images by maximizing a histogram bimodality measure 2009 ,		15
65	Fast Switching Filter for Impulsive Noise Removal from Color Images. <i>Journal of Imaging Science and Technology</i> , 2007 , 51, 155	1.2	15
64	Skin lesion segmentation using an improved snake model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 1974-7	0.9	14
63	Distance measures for reduced ordering-based vector filters. <i>IET Image Processing</i> , 2009 , 3, 249-260	1.7	14
62	Diverse adversarial network for image super-resolution. <i>Signal Processing: Image Communication</i> , 2019 , 74, 191-200	2.8	12
61	Computer Vision Techniques for the Diagnosis of Skin Cancer. <i>Series in Bioengineering</i> , 2014 ,	0.7	12
60	Colour quantisation using the adaptive distributing units algorithm. <i>Imaging Science Journal</i> , 2014 , 62, 80-91	0.9	12
59	Improving dermoscopy image analysis using color constancy 2014 ,		12
58	Objective evaluation of methods for border detection in dermoscopy images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 3056-9	0.9	12
57	Clinically inspired analysis of dermoscopy images using a generative model. <i>Computer Vision and Image Understanding</i> , 2016 , 151, 124-137	4.3	12

56	Weighted performance index for objective evaluation of border detection methods in dermoscopy images. <i>Skin Research and Technology</i> , 2011 , 17, 35-44	1.9	11
55	Analysis of globule types in malignant melanoma. <i>Archives of Dermatology</i> , 2009 , 145, 1245-51		11
54	Fast colour space transformations using minimax approximations. <i>IET Image Processing</i> , 2010 , 4, 70	1.7	11
53	Fast color quantization using weighted sort-means clustering. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009 , 26, 2434-43	1.8	9
52	Simple and effective pre-processing for automated melanoma discrimination based on cytological findings 2016 ,		9
51	Towards an automatic bag-of-features model for the classification of dermoscopy images: The influence of segmentation 2013 ,		8
50	Alternative distance/similarity measures for reduced ordering based nonlinear vector filters 2010 ,		8
49	Effective initialization of k-means for color quantization 2009 ,		8
48	Parameterization of Dermoscopic Findings for the Internet-based Melanoma Screening System 2007 ,		8
47	Checklist for Evaluation of Image-Based Artificial Intelligence Reports in Dermatology: CLEAR Derm Consensus Guidelines From the International Skin Imaging Collaboration Artificial Intelligence Working Group. <i>JAMA Dermatology</i> , 2021 ,	5.1	8
46	2019 ,		8
45	Robust texture retrieval of compressed images 2012 ,		7
44	Guest Editorial Skin Lesion Image Analysis for Melanoma Detection. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 479-480	7.2	6
43	Social Behavioral Phenotyping of Drosophila With a 2DBD Hybrid CNN Framework. <i>IEEE Access</i> , 2019 , 7, 67972-67982	3.5	6
42	A new family of order-statistics based switching vector filters 2010 ,		6
41	Development of a novel border detection method for melanocytic and non-melanocytic dermoscopy images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5403-6	0.9	6
40	Anisotropic mean shift based fuzzy c-means segmentation of skin lesions 2008 ,		6
39	Evolving strategies for the development and evaluation of a computerised melanoma image analysis system. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2018 , 6, 465-472	0.9	5

38	Cost-effective implementation of order-statistics-based vector filters using minimax approximations. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2009 , 26, 1518-24	1.8	5
37	Linear, Deterministic, and Order-Invariant Initialization Methods for the K-Means Clustering Algorithm 2015 , 79-98		5
36	Color Quantization of Dermoscopy Images Using the K-Means Clustering Algorithm. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2013 , 87-107	0.3	4
35	Color quantization using c-means clustering algorithms 2011 ,		4
34	Skin lesion extraction in dermoscopic images based on colour enhancement and iterative segmentation 2009 ,		4
33	Skin lesion segmentation using co-operative neural network edge detection and colour normalisation 2009 ,		4
32	Artificial Intelligence Approach in Melanoma 2019 , 1-31		3
31	Color Detection in Dermoscopy Images Based on Scarce Annotations. <i>Lecture Notes in Computer Science</i> , 2015 , 309-316	0.9	3
30	Artificial Intelligence Approach in Melanoma 2019 , 599-628		3
29	Comments on \mathbb{D}_n approximating Euclidean metrics by weighted t-cost distances in arbitrary dimension \square <i>Pattern Recognition Letters</i> , 2012 , 33, 1422-1425	4.7	3
28	A clinically oriented system for melanoma diagnosis using a color representation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7462-5	0.9	3
27	An Improved Segmentation Method for Non-melanoma Skin Lesions Using Active Contour Model. <i>Lecture Notes in Computer Science</i> , 2014 , 193-200	0.9	3
26	Rough colour quantisation. <i>International Journal of Hybrid Intelligent Systems</i> , 2011 , 8, 25-30	0.9	3
25	Comparison of Conventional and Bisecting K-Means Algorithms on Color Quantization 2012 ,		3
24	Melanoma Classification Based on Ensemble Classification of Dermoscopy Image Features. <i>Communications in Computer and Information Science</i> , 2014 , 291-298	0.3	3
23	Local Features Applied to Dermoscopy Images: Bag-of-Features versus Sparse Coding. <i>Lecture Notes in Computer Science</i> , 2017 , 528-536	0.9	3
22	Advances in deep learning for real-time image and video reconstruction and processing. <i>Journal of Real-Time Image Processing</i> , 2020 , 17, 1883-1884	1.9	3
21	Fast color quantization using MacQueen's k-means algorithm. <i>Journal of Real-Time Image Processing</i> , 2020 , 17, 1609-1624	1.9	3

20	Color Quantization Using Coreset Sampling 2018 ,		3
19	Melanoma Classification Using Dermoscopy Imaging and Ensemble Learning 2013 ,		2
18	Automated color normalization for dermoscopy images 2010 ,		2
17	A simple and efficient algorithm for connected component labeling in color images 2012 ,		2
16	Private Facial Prediagnosis as an Edge Service for Parkinson's DBS Treatment Valuation.. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022 , PP,	7.2	2
15	Special Section Guest Editorial: Superpixels for Image Processing and Computer Vision. <i>Journal of Electronic Imaging</i> , 2017 , 26, 1	0.7	2
14	Batch Neural Gas with Deterministic Initialization for Color Quantization. <i>Lecture Notes in Computer Science</i> , 2012 , 48-54	0.9	2
13	Sparse Wavelet Networks. <i>IEEE Signal Processing Letters</i> , 2020 , 27, 111-115	3.2	2
12	Special issue on real-time color image processing. <i>Journal of Real-Time Image Processing</i> , 2015 , 10, 189-191	1	1
11	Extension of automated melanoma screening for non-melanocytic skin lesions. <i>International Journal of Computer Applications in Technology</i> , 2014 , 50, 122	0.7	1
10	Accelerating color space transformations using numerical approximations 2010 ,		1
9	Multilevel wireless capsule endoscopy video segmentation 2010 ,		1
8	Can Mean Shift Trackers Perform Better? 2010 ,		1
7	An Internet-based melanoma screening system with acral volar lesion support. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 5156-9	0.9	1
6	Content Based Retrieval and Classification of Cultural Relic Images. <i>Lecture Notes in Computer Science</i> , 2005 , 292-297	0.9	1
5	Special Section Guest Editorial: Image and Video Analysis, Detection and Recognition. <i>Journal of Electronic Imaging</i> , 2018 , 27, 1	0.7	1
4	Skin Melanoma Detection in Microscopic Images Using HMM-Based Asymmetric Analysis and Expectation Maximization. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 3486-3497	7.2	1
3	Effective Colour Reduction Using Grey Wolf Optimisation. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 170-178	0.3	0

- 2 Building of Readable Decision Trees for Automated Melanoma Discrimination. *Lecture Notes in Computer Science*, **2015**, 712-721 0.9
- 1 Localization of Lesions in Dermoscopy Images Using Ensembles of Thresholding Methods. *Lecture Notes in Computer Science*, **2009**, 1094-1103 0.9