

Mehemmed Emre Celebi

List of Publications by Year in descending order

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140
papers

7,754
citations

81743

39
h-index

64668

79
g-index

142
all docs

142
docs citations

142
times ranked

4357
citing authors

#	ARTICLE	IF	CITATIONS
1	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, , .		896
2	A comparative study of efficient initialization methods for the k-means clustering algorithm. Expert Systems With Applications, 2013, 40, 200-210.	4.4	834
3	A methodological approach to the classification of dermoscopy images. Computerized Medical Imaging and Graphics, 2007, 31, 362-373.	3.5	535
4	Lesion border detection in dermoscopy images. Computerized Medical Imaging and Graphics, 2009, 33, 148-153.	3.5	351
5	Border detection in dermoscopy images using statistical region merging. Skin Research and Technology, 2008, 14, 347-353.	0.8	339
6	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. Journal of the American Academy of Dermatology, 2018, 78, 270-277.e1.	0.6	236
7	Unsupervised border detection in dermoscopy images. Skin Research and Technology, 2007, 13, 454-462.	0.8	205
8	An improved Internet-based melanoma screening system with dermatologist-like tumor area extraction algorithm. Computerized Medical Imaging and Graphics, 2008, 32, 566-579.	3.5	201
9	Hair removal methods: A comparative study for dermoscopy images. Biomedical Signal Processing and Control, 2011, 6, 395-404.	3.5	186
10	Lesion Border Detection in Dermoscopy Images Using Ensembles of Thresholding Methods. Skin Research and Technology, 2013, 19, e252-8.	0.8	153
11	Anisotropic Mean Shift Based Fuzzy C-Means Segmentation of Dermoscopy Images. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 26-34.	7.3	149
12	Improving the performance of k-means for color quantization. Image and Vision Computing, 2011, 29, 260-271.	2.7	140
13	Automatic detection of blue-white veil and related structures in dermoscopy images. Computerized Medical Imaging and Graphics, 2008, 32, 670-677.	3.5	139
14	Border detection in dermoscopy images using hybrid thresholding on optimized color channels. Computerized Medical Imaging and Graphics, 2011, 35, 105-115.	3.5	137
15	A Survey of Feature Extraction in Dermoscopy Image Analysis of Skin Cancer. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1096-1109.	3.9	121
16	Dermoscopy Image Analysis: Overview and Future Directions. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 474-478.	3.9	121
17	Mean shift based gradient vector flow for image segmentation. Computer Vision and Image Understanding, 2013, 117, 1004-1016.	3.0	108
18	Advances in Data Preprocessing for Biomedical Data Fusion: An Overview of the Methods, Challenges, and Prospects. Information Fusion, 2021, 76, 376-421.	11.7	106

#	ARTICLE	IF	CITATIONS
19	Colour and contrast enhancement for improved skin lesion segmentation. Computerized Medical Imaging and Graphics, 2011, 35, 99-104.	3.5	100
20	Improving Dermoscopy Image Classification Using Color Constancy. IEEE Journal of Biomedical and Health Informatics, 2014, 19, 1-1.	3.9	100
21	Pattern classification of dermoscopy images: A perceptually uniform model. Pattern Recognition, 2013, 46, 86-97.	5.1	97
22	Four-Class Classification of Skin Lesions With Task Decomposition Strategy. IEEE Transactions on Biomedical Engineering, 2015, 62, 274-283.	2.5	96
23	Real-time implementation of order-statistics-based directional filters. IET Image Processing, 2009, 3, 1-9.	1.4	93
24	Gradient vector flow with mean shift for skin lesion segmentation. Computerized Medical Imaging and Graphics, 2011, 35, 121-127.	3.5	93
25	An ensemble classification approach for melanoma diagnosis. Memetic Computing, 2014, 6, 233-240.	2.7	92
26	Image synthesis with adversarial networks: A comprehensive survey and case studies. Information Fusion, 2021, 72, 126-146.	11.7	83
27	Automated Quantification of Clinically Significant Colors in Dermoscopy Images and Its Application to Skin Lesion Classification. IEEE Systems Journal, 2014, 8, 980-984.	2.9	79
28	Checklist for Evaluation of Image-Based Artificial Intelligence Reports in Dermatology. JAMA Dermatology, 2022, 158, 90.	2.0	71
29	Lesion border detection in dermoscopy images using dynamic programming. Skin Research and Technology, 2011, 17, 91-100.	0.8	68
30	Explainable skin lesion diagnosis using taxonomies. Pattern Recognition, 2021, 110, 107413.	5.1	63
31	Computer-Based Classification of Dermoscopy Images of Melanocytic Lesions on Acral Volar Skin. Journal of Investigative Dermatology, 2008, 128, 2049-2054.	0.3	60
32	Melanoma recognition framework based on expert definition of <scp>ABCD</scp> for dermoscopic images. Skin Research and Technology, 2013, 19, e93-102.	0.8	57
33	Modified watershed technique and post-processing for segmentation of skin lesions in dermoscopy images. Computerized Medical Imaging and Graphics, 2011, 35, 116-120.	3.5	55
34	Polyp detection in Wireless Capsule Endoscopy videos based on image segmentation and geometric feature. , 2010, , .		54
35	Development of a clinically oriented system for melanoma diagnosis. Pattern Recognition, 2017, 69, 270-285.	5.1	53
36	DermoDeep-A classification of melanoma-nevus skin lesions using multi-feature fusion of visual features and deep neural network. Multimedia Tools and Applications, 2019, 78, 23559-23580.	2.6	51

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37	DETERMINISTIC INITIALIZATION OF THE K-MEANS ALGORITHM USING HIERARCHICAL CLUSTERING. International Journal of Pattern Recognition and Artificial Intelligence, 2012, 26, 1250018.	0.7	47
38	Detection of atypical texture features in early malignant melanoma. Skin Research and Technology, 2010, 16, 60-65.	0.8	45
39	A Feature-Preserving Hair Removal Algorithm for Dermoscopy Images. Skin Research and Technology, 2013, 19, e27-36.	0.8	45
40	Breast mass segmentation using region-based and edge-based methods in a 4-stage multiscale system. Biomedical Signal Processing and Control, 2013, 8, 204-214.	3.5	43
41	A perceptually oriented method for contrast enhancement and segmentation of dermoscopy images. Skin Research and Technology, 2013, 19, e490-7.	0.8	42
42	Automated color calibration method for dermoscopy images. Computerized Medical Imaging and Graphics, 2011, 35, 89-98.	3.5	40
43	Skin tumor area extraction using an improved dynamic programming approach. Skin Research and Technology, 2012, 18, 133-142.	0.8	40
44	Watershed segmentation of dermoscopy images using a watershed technique. Skin Research and Technology, 2010, 16, 378-84.	0.8	39
45	On Euclidean norm approximations. Pattern Recognition, 2011, 44, 278-283.	5.1	36
46	Advances in skin cancer image analysis. Computerized Medical Imaging and Graphics, 2011, 35, 83-84.	3.5	35
47	Three-phase general border detection method for dermoscopy images using non-uniform illumination correction. Skin Research and Technology, 2012, 18, 290-300.	0.8	34
48	Hard versus fuzzy c-means clustering for color quantization. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.0	33
49	An effective real-time color quantization method based on divisive hierarchical clustering. Journal of Real-Time Image Processing, 2015, 10, 329-344.	2.2	32
50	An improved objective evaluation measure for border detection in dermoscopy images. Skin Research and Technology, 2009, 15, 444-450.	0.8	31
51	Computer-aided pattern classification system for dermoscopy images. Skin Research and Technology, 2012, 18, 278-289.	0.8	31
52	Improving dermoscopy image analysis using color constancy. , 2014, , .		28
53	Fast and accurate border detection in dermoscopy images using statistical region merging. , 2007, , .		27
54	Face Recognition in the Scrambled Domain via Saliency-Aware Ensembles of Many Kernels. IEEE Transactions on Information Forensics and Security, 2016, 11, 1807-1817.	4.5	27

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55	Robust codebook-based video background subtraction. , 2010, , .		26
56	Privacy-Protected Facial Biometric Verification Using Fuzzy Forest Learning. IEEE Transactions on Fuzzy Systems, 2016, 24, 779-790.	6.5	26
57	Computer Vision Techniques for the Diagnosis of Skin Cancer. Series in Bioengineering, 2014, , .	0.3	25
58	Melanoma detection algorithm based on feature fusion. , 2015, 2015, 2653-6.		25
59	Wavelet-based approach to melanoma diagnosis from dermoscopy images. IET Image Processing, 2017, 11, 475-482.	1.4	24
60	Robust border detection in dermoscopy images using threshold fusion. , 2010, , .		23
61	Contrast enhancement in dermoscopy images by maximizing a histogram bimodality measure. , 2009, , .		21
62	Detection of basal cell carcinoma using color and histogram measures of semitranslucent areas. Skin Research and Technology, 2009, 15, 283-287.	0.8	20
63	Approximate lesion localization in dermoscopy images. Skin Research and Technology, 2009, 15, 314-322.	0.8	20
64	Skin lesion segmentation using an improved snake model. , 2010, 2010, 1974-7.		20
65	Linear, Deterministic, and Order-Invariant Initialization Methods for the K-Means Clustering Algorithm. , 2015, , 79-98.		20
66	Fast Switching Filter for Impulsive Noise Removal from Color Images. Journal of Imaging Science and Technology, 2007, 51, 155.	0.3	19
67	Unified approach for lesion border detection based on mixture modeling and local entropy thresholding. Skin Research and Technology, 2013, 19, 314-319.	0.8	19
68	Color identification in dermoscopy images using Gaussian mixture models. , 2014, , .		19
69	Diverse adversarial network for image super-resolution. Signal Processing: Image Communication, 2019, 74, 191-200.	1.8	19
70	Deep Attention Model for the Hierarchical Diagnosis of Skin Lesions. , 2019, , .		19
71	The incremental online k-means clustering algorithm and its application to color quantization. Expert Systems With Applications, 2022, 207, 117927.	4.4	19
72	Effective initialization of k-means for color quantization. , 2009, , .		18

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73	Classification of melanocytic skin lesions from non-melanocytic lesions. , 2010, 2010, 5407-10.		17
74	Clinically inspired analysis of dermoscopy images using a generative model. Computer Vision and Image Understanding, 2016, 151, 124-137.	3.0	16
75	Distance measures for reduced ordering-based vector filters. IET Image Processing, 2009, 3, 249-260.	1.4	15
76	Colour quantisation using the adaptive distributing units algorithm. Imaging Science Journal, 2014, 62, 80-91.	0.2	15
77	Social Behavioral Phenotyping of Drosophila With a 2Dâ€“3D Hybrid CNN Framework. IEEE Access, 2019, 7, 67972-67982.	2.6	15
78	Analysis of Globule Types in Malignant Melanoma. Archives of Dermatology, 2009, 145, 1245-51.	1.7	14
79	Weighted performance index for objective evaluation of border detection methods in dermoscopy images. Skin Research and Technology, 2011, 17, 35-44.	0.8	14
80	Objective evaluation of methods for border detection in dermoscopy images. , 2008, 2008, 3056-9.		13
81	Fast colour space transformations using minimax approximations. IET Image Processing, 2010, 4, 70.	1.4	13
82	Fast color quantization using weighted sort-means clustering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 2434.	0.8	12
83	Simple and effective pre-processing for automated melanoma discrimination based on cytological findings. , 2016, , .		12
84	Fast color quantization using MacQueenâ€™s k-means algorithm. Journal of Real-Time Image Processing, 2020, 17, 1609-1624.	2.2	12
85	Parameterization of Dermoscopic Findings for the Internet-based Melanoma Screening System. , 2007, , .		10
86	Anisotropic mean shift based fuzzy c-means segmentation of skin lesions. , 2008, , .		10
87	Skin lesion extraction in dermoscopic images based on colour enhancement and iterative segmentation. , 2009, , .		10
88	Development of a novel border detection method for melanocytic and non-melanocytic dermoscopy images. , 2010, 2010, 5403-6.		10
89	Robust texture retrieval of compressed images. , 2012, , .		10
90	Guest Editorial Skin Lesion Image Analysis for Melanoma Detection. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 479-480.	3.9	10

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91	Towards an automatic bag-of-features model for the classification of dermoscopy images: The influence of segmentation. , 2013, , .		9
92	Alternative distance/similarity measures for reduced ordering based nonlinear vector filters. , 2010, , .		8
93	A new family of order-statistics based switching vector filters. , 2010, , .		7
94	Color Quantization Using Coreset Sampling. , 2018, , .		7
95	Skin Melanoma Detection in Microscopic Images Using HMM-Based Asymmetric Analysis and Expectation Maximization. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3486-3497.	3.9	7
96	Color quantization using c-means clustering algorithms. , 2011, , .		6
97	Rough colour quantisation. International Journal of Hybrid Intelligent Systems, 2011, 8, 25-30.	0.9	6
98	Color Quantization of Dermoscopy Images Using the K-Means Clustering Algorithm. Lecture Notes in Computational Vision and Biomechanics, 2013, , 87-107.	0.5	6
99	Deep learning approaches for real-time image super-resolution. Neural Computing and Applications, 2020, 32, 14519-14520.	3.2	6
100	Cost-effective implementation of order-statistics-based vector filters using minimax approximations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 1518.	0.8	5
101	Skin lesion segmentation using co-operative neural network edge detection and colour normalisation. , 2009, , .		5
102	Comments on "On approximating Euclidean metrics by weighted t-cost distances in arbitrary dimension". Pattern Recognition Letters, 2012, 33, 1422-1425.	2.6	5
103	Evolving strategies for the development and evaluation of a computerised melanoma image analysis system. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 465-472.	1.3	5
104	Artificial Intelligence Approach in Melanoma. , 2019, , 599-628.		5
105	Artificial Intelligence Approach in Melanoma. , 2019, , 1-31.		5
106	Advances in deep learning for real-time image and video reconstruction and processing. Journal of Real-Time Image Processing, 2020, 17, 1883-1884.	2.2	5
107	Private Facial Prediagnosis as an Edge Service for Parkinson's DBS Treatment Valuation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2703-2713.	3.9	5
108	Automated color normalization for dermoscopy images. , 2010, , .		4

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109	Melanoma Classification Using Dermoscopy Imaging and Ensemble Learning. , 2013, , .		4
110	An Improved Segmentation Method for Non-melanoma Skin Lesions Using Active Contour Model. Lecture Notes in Computer Science, 2014, , 193-200.	1.0	4
111	A clinically oriented system for melanoma diagnosis using a color representation. , 2015, 2015, 7462-5.		4
112	Sparse Wavelet Networks. IEEE Signal Processing Letters, 2020, 27, 111-115.	2.1	4
113	Comparison of Conventional and Bisecting K-Means Algorithms on Color Quantization. , 2012, , .		4
114	A simple and efficient algorithm for connected component labeling in color images. , 2012, , .		3
115	Melanoma Classification Based on Ensemble Classification of Dermoscopy Image Features. Communications in Computer and Information Science, 2014, , 291-298.	0.4	3
116	Local Features Applied to Dermoscopy Images: Bag-of-Features versus Sparse Coding. Lecture Notes in Computer Science, 2017, , 528-536.	1.0	3
117	Batch Neural Gas with Deterministic Initialization for Color Quantization. Lecture Notes in Computer Science, 2012, , 48-54.	1.0	3
118	Special Section Guest Editorial: Superpixels for Image Processing and Computer Vision. Journal of Electronic Imaging, 2017, 26, 1.	0.5	3
119	Colour Quantisation using Human Mental Search and Local Refinement. , 2020, , .		3
120	Content Based Retrieval and Classification of Cultural Relic Images. Lecture Notes in Computer Science, 2005, , 292-297.	1.0	2
121	Multilevel wireless capsule endoscopy video segmentation. Proceedings of SPIE, 2010, , .	0.8	2
122	VARIANCE-CUT: A fast color quantization method based on hierarchical clustering. , 2013, , .		2
123	Extension of automated melanoma screening for non-melanocytic skin lesions. International Journal of Computer Applications in Technology, 2014, 50, 122.	0.3	2
124	An Internet-based melanoma screening system with acral volar lesion support. , 2008, 2008, 5156-9.		1
125	Bayesian image segmentation with mean shift. , 2009, , .		1
126	Perioperative cardiac risk prediction. , 2009, , .		1

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127	Accelerating color space transformations using numerical approximations. , 2010, , .		1
128	Can Mean Shift Trackers Perform Better?. , 2010, , .		1
129	Special issue on real-time color image processing. Journal of Real-Time Image Processing, 2015, 10, 189-191.	2.2	1
130	Effective Colour Reduction Using Grey Wolf Optimisation. Lecture Notes in Computational Vision and Biomechanics, 2018, , 170-178.	0.5	1
131	Building of Readable Decision Trees for Automated Melanoma Discrimination. Lecture Notes in Computer Science, 2015, , 712-721.	1.0	1
132	Special Section Guest Editorial: Image and Video Analysis, Detection and Recognition. Journal of Electronic Imaging, 2018, 27, 1.	0.5	1
133	Guest editorial: Image analysis in dermatology. Medical Image Analysis, 2022, 79, 102468.	7.0	1
134	Unsupervised Learning of Manifolds via Linear Approximations. , 2007, , .		0
135	<title>STRG-QL: spatio-temporal region graph query language for video databases</title>. Proceedings of SPIE, 2008, , .	0.8	0
136	Fast implementation of vector directional filters. , 2009, , .		0
137	An adaptive and deterministic method for initializing the Lloyd-Max algorithm. Proceedings of SPIE, 2012, , .	0.8	0
138	Similarity-Based Browsing of Image Search Results. , 2013, , .		0
139	Localization of Lesions in Dermoscopy Images Using Ensembles of Thresholding Methods. Lecture Notes in Computer Science, 2009, , 1094-1103.	1.0	0
140	Unsupervised Learning of Manifolds via Linear Approximations. Database and Expert Systems Applications (DEXA), Proceedings of the International Workshop on, 2007, , .	0.0	0