

Palaiahnakote Shivakumara

List of Publications by Year in descending order

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Version: 2024-02-01

163
papers

3,319
citations

236912

25
h-index

223791

46
g-index

168
all docs

168
docs citations

168
times ranked

1578
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust arbitrary text detection system for natural scene images. Expert Systems With Applications, 2014, 41, 8027-8048.	7.6	316
2	A Laplacian Approach to Multi-Oriented Text Detection in Video. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 412-419.	13.9	236
3	Recognizing Text with Perspective Distortion in Natural Scenes. , 2013, , .		208
4	(2D)2LDA: An efficient approach for face recognition. Pattern Recognition, 2006, 39, 1396-1400.	8.1	143
5	Graphology based handwritten character analysis for human behaviour identification. CAAI Transactions on Intelligence Technology, 2020, 5, 55-65.	8.1	86
6	Multioriented Video Scene Text Detection Through Bayesian Classification and Boundary Growing. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 1227-1235.	8.3	84
7	A Laplacian Method for Video Text Detection. , 2009, , .		68
8	Accurate video text detection through classification of low and high contrast images. Pattern Recognition, 2010, 43, 2165-2185.	8.1	65
9	Exact String Matching Algorithms: Survey, Issues, and Future Research Directions. IEEE Access, 2019, 7, 69614-69637.	4.2	64
10	New Fourier-Statistical Features in RGB Space for Video Text Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1520-1532.	8.3	62
11	CNN&RNN based method for license plate recognition. CAAI Transactions on Intelligence Technology, 2018, 3, 169-175.	8.1	62
12	Riesz Fractional Based Model for Enhancing License Plate Detection and Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2276-2288.	8.3	59
13	Multi-Spectral Fusion Based Approach for Arbitrarily Oriented Scene Text Detection in Video Images. IEEE Transactions on Image Processing, 2015, 24, 4488-4501.	9.8	50
14	A New Technique for Multi-Oriented Scene Text Line Detection and Tracking in Video. IEEE Transactions on Multimedia, 2015, 17, 1137-1152.	7.2	49
15	A new Histogram Oriented Moments descriptor for multi-oriented moving text detection in video. Expert Systems With Applications, 2015, 42, 7627-7640.	7.6	48
16	Gradient Vector Flow and Grouping-Based Method for Arbitrarily Oriented Scene Text Detection in Video Images. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1729-1739.	8.3	47
17	An Efficient Edge Based Technique for Text Detection in Video Frames. , 2008, , .		44
18	A Robust Wavelet Transform Based Technique for Video Text Detection. , 2009, , .		44

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19	Diagonal Fisher linear discriminant analysis for efficient face recognition. <i>Neurocomputing</i> , 2006, 69, 1711-1716.	5.9	43
20	A New Method for Arbitrarily-Oriented Text Detection in Video. , 2012, , .		43
21	A blind deconvolution model for scene text detection and recognition in video. <i>Pattern Recognition</i> , 2016, 54, 128-148.	8.1	40
22	A Gradient Difference Based Technique for Video Text Detection. , 2009, , .		39
23	Bayesian classifier for multi-oriented video text recognition system. <i>Expert Systems With Applications</i> , 2015, 42, 5554-5566.	7.6	38
24	Multi-Script-Oriented Text Detection and Recognition in Video/Scene/Born Digital Images. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019, 29, 1145-1162.	8.3	38
25	A novel forged blurred region detection system for image forensic applications. <i>Expert Systems With Applications</i> , 2016, 64, 1-10.	7.6	36
26	Video Script Identification Based on Text Lines. , 2011, , .		34
27	A novel character segmentation-reconstruction approach for license plate recognition. <i>Expert Systems With Applications</i> , 2019, 131, 219-239.	7.6	34
28	Detecting text in the real world. , 2012, , .		33
29	Script independent approach for multi-oriented text detection in scene image. <i>Neurocomputing</i> , 2017, 242, 96-112.	5.9	33
30	A new multi-modal approach to bib number/text detection and recognition in Marathon images. <i>Pattern Recognition</i> , 2017, 61, 479-491.	8.1	33
31	Video text detection based on filters and edge features. , 2009, , .		31
32	New Gradient-Spatial-Structural Features for video script identification. <i>Computer Vision and Image Understanding</i> , 2015, 130, 35-53.	4.7	30
33	New Spatial-Gradient-Features for Video Script Identification. , 2012, , .		29
34	An automatic zone detection system for safe landing of UAVs. <i>Expert Systems With Applications</i> , 2019, 122, 319-333.	7.6	29
35	Fractional poisson enhancement model for text detection and recognition in video frames. <i>Pattern Recognition</i> , 2016, 52, 433-447.	8.1	28
36	Detection of Curved Text in Video: Quad Tree Based Method. , 2013, , .		27

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37	Delanay triangulation based text detection from multi-view images of natural scene. Pattern Recognition Letters, 2020, 129, 92-100.	4.2	27
38	A Gradient Vector Flow-Based Method for Video Character Segmentation. , 2011, , .		25
39	A novel mutual nearest neighbor based symmetry for text frame classification in video. Pattern Recognition, 2011, 44, 1671-1683.	8.1	25
40	Fractals based multi-oriented text detection system for recognition in mobile video images. Pattern Recognition, 2017, 68, 158-174.	8.1	24
41	Rough-fuzzy based scene categorization for text detection and recognition in video. Pattern Recognition, 2018, 80, 64-82.	8.1	24
42	Arbitrarily-Oriented Text Detection in Low Light Natural Scene Images. IEEE Transactions on Multimedia, 2021, 23, 2706-2720.	7.2	23
43	Multi-oriented scene text detection in video based on wavelet and angle projection boundary growing. Multimedia Tools and Applications, 2014, 72, 515-539.	3.9	21
44	Arbitrarily-oriented multi-lingual text detection in video. Multimedia Tools and Applications, 2017, 76, 16625-16655.	3.9	21
45	A new split based searching for exact pattern matching for natural texts. PLoS ONE, 2018, 13, e0200912.	2.5	21
46	Multi-Gradient-Direction based deep learning model for arecanut disease identification. CAAI Transactions on Intelligence Technology, 2022, 7, 156-166.	8.1	21
47	Text segmentation in degraded historical document images. Egyptian Informatics Journal, 2016, 17, 189-197.	6.8	20
48	A novel ring radius transform for video character reconstruction. Pattern Recognition, 2013, 46, 131-140.	8.1	18
49	Recognition of Video Text through Temporal Integration. , 2013, , .		18
50	A novel boundary growing approach for accurate skew estimation of binary document images. Pattern Recognition Letters, 2006, 27, 791-801.	4.2	17
51	Separation of Graphics (Superimposed) and Scene Text in Video Frames. , 2014, , .		17
52	A new watershed model based system for character segmentation in degraded text lines. AEU - International Journal of Electronics and Communications, 2017, 71, 45-52.	2.9	17
53	Kidney segmentation in MR images using active contour model driven by fractional-based energy minimization. Signal, Image and Video Processing, 2020, 14, 1361-1368.	2.7	17
54	Graphics and Scene Text Classification in Video. , 2014, , .		16

#	ARTICLE	IF	CITATIONS
55	Gradient-Angular-Features for Word-wise Video Script Identification. , 2014, , .		15
56	Adaptive Multi-Gradient Kernels for Handwriting Based Gender Identification. , 2018, , .		15
57	Curved text detection in blurred/non-blurred video/scene images. Multimedia Tools and Applications, 2019, 78, 25629-25653.	3.9	15
58	Fractional means based method for multi-oriented keyword spotting in video/scene/license plate images. Expert Systems With Applications, 2019, 118, 1-19.	7.6	15
59	Character shape restoration system through medial axis points in video. Neurocomputing, 2015, 161, 183-198.	5.9	14
60	Fourier Coefficients for Fraud Handwritten Document Classification through Age Analysis. , 2016, , .		14
61	Graph attention network for detecting license plates in crowded street scenes. Pattern Recognition Letters, 2020, 140, 18-25.	4.2	14
62	Scene Character Detection by an Edge-Ray Filter. , 2013, , .		13
63	Contour Restoration of Text Components for Recognition in Video/Scene Images. IEEE Transactions on Image Processing, 2016, 25, 5622-5634.	9.8	13
64	PARTITION-BASED PATTERN MATCHING APPROACH FOR EFFICIENT RETRIEVAL OF ARABIC TEXT. Malaysian Journal of Computer Science, 2018, 31, 200-209.	0.8	13
65	A new wavelet-Laplacian method for arbitrarily-oriented character segmentation in video text lines. , 2015, , .		12
66	CRNN Based Jersey-Bib Number/Text Recognition in Sports and Marathon Images. , 2019, , .		12
67	A new unified method for detecting text from marathon runners and sports players in video (PR-D-19-01078R2). Pattern Recognition, 2020, 107, 107476.	8.1	12
68	A new DCT-PCM method for license plate number detection in drone images. Pattern Recognition Letters, 2021, 148, 45-53.	4.2	12
69	Piece-wise linearity based method for text frame classification in video. Pattern Recognition, 2015, 48, 862-881.	8.1	11
70	New Tampered Features for Scene and Caption Text Classification in Video Frame. , 2016, , .		11
71	A new Fractal Series Expansion based enhancement model for license plate recognition. Signal Processing: Image Communication, 2020, 89, 115958.	3.2	11
72	A Robust Script Identification System for Historical Indian Document Images. Malaysian Journal of Computer Science, 2015, 28, 283-300.	0.8	11

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73	Text Detection Using Delaunay Triangulation in Video Sequence. , 2014, , .		10
74	Multi-Gradient Directional Features for Gender Identification. , 2018, , .		10
75	Fuzzy and genetic algorithm based approach for classification of personality traits oriented social media images. Knowledge-Based Systems, 2022, 241, 108024.	7.1	10
76	Sliding window based approach for document image mosaicing. Image and Vision Computing, 2006, 24, 94-100.	4.5	9
77	New Sharpness Features for Image Type Classification Based on Textual Information. , 2016, , .		9
78	A New RGB Based Fusion for Forged IMEI Number Detection in Mobile Images. , 2018, , .		9
79	A novel technique for estimation of skew in binary text document images based on linear regression analysis. Sadhana - Academy Proceedings in Engineering Sciences, 2005, 30, 69-85.	1.3	8
80	Semiautomatic Ground Truth Generation for Text Detection and Recognition in Video Images. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 1277-1287.	8.3	8
81	Content-oriented multimedia document understanding through cross-media correlation. Multimedia Tools and Applications, 2015, 74, 8105-8135.	3.9	8
82	A new method for multi-oriented graphics-scene-3D text classification in video. Pattern Recognition, 2016, 49, 19-42.	8.1	8
83	Fourier-Residual for Printer Identification. , 2017, , .		8
84	Oil palm tree counting in drone images. Pattern Recognition Letters, 2022, 153, 1-9.	4.2	8
85	New COLD Feature Based Handwriting Analysis for Enthnicity/Nationality Identification. , 2018, , .		7
86	An Efficient Text Representation for Searching and Retrieving Classical Diacritical Arabic Text. Procedia Computer Science, 2018, 142, 150-157.	2.0	7
87	Channel-wise attention model-based fire and rating level detection in video. CAAI Transactions on Intelligence Technology, 2019, 4, 117-121.	8.1	7
88	A new context-based feature for classification of emotions in photographs. Multimedia Tools and Applications, 2021, 80, 15589-15618.	3.9	7
89	An Episodic Learning Network for Text Detection on Human Bodies in Sports Images. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2279-2289.	8.3	7
90	Scene Character Reconstruction through Medial Axis. , 2013, , .		6

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91	A new sharpness based approach for character segmentation in License plate images. , 2015, , .		6
92	A new ring radius transform-based thinning method for multi-oriented video characters. International Journal on Document Analysis and Recognition, 2015, 18, 137-151.	3.4	6
93	Video scene text frames categorization for text detection and recognition. , 2016, , .		6
94	Fourier Transform based Features for Clean and Polluted Water Image Classification. , 2018, , .		6
95	Weighted-Gradient Features for Handwritten Line Segmentation. , 2018, , .		6
96	New Fusion Based Enhancement for Text Detection in Night Video Footage. Lecture Notes in Computer Science, 2018, , 46-56.	1.3	6
97	A new augmentation-based method for text detection in night and day license plate images. Multimedia Tools and Applications, 2020, 79, 33303-33330.	3.9	6
98	A new method for detection and prediction of occluded text in natural scene images. Signal Processing: Image Communication, 2022, 100, 116512.	3.2	6
99	A New U-Net Based License Plate Enhancement Model in Night and Day Images. Lecture Notes in Computer Science, 2020, , 749-763.	1.3	6
100	Forged text detection in video, scene, and document images. IET Image Processing, 2020, 14, 4744-4755.	2.5	6
101	New Filter Based Unsupervised Rules for Boolean Blur Metric. , 2007, , .		5
102	Anomaly Detection through Spatio-temporal Context Modeling in Crowded Scenes. , 2014, , .		5
103	A New Laplacian Method for Arbitrarily-Oriented Word Segmentation in Video. , 2014, , .		5
104	Temporal Integration for Word-Wise Caption and Scene Text Identification. , 2017, , .		5
105	A New GVF Arrow Pattern for Character Segmentation from Double Line License Plate Images. , 2017, , .		5
106	A New Shadow Detection and Depth Removal Method for 3D Text Recognition in Scene Images. , 2018, , .		5
107	Scene Character Detection and Recognition with Cooperative Multiple-Hypothesis Framework. IEICE Transactions on Information and Systems, 2013, E96.D, 2235-2244.	0.7	4
108	Multi-oriented moving text detection. , 2014, , .		4

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109	A geometric and fractional entropy-based method for family photo classification. Expert Systems With Applications: X, 2019, 3, 100008.	4.7	4
110	DCT-phase statistics for forged IMEI numbers and air ticket detection. Expert Systems With Applications, 2021, 164, 114014.	7.6	4
111	Chebyshev-Harmonic-Fourier-Moments and Deep CNNs for Detecting Forged Handwriting. , 2021, , .		4
112	A New Deep Wavefront Based Model for Text Localization in 3D Video. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3375-3389.	8.3	4
113	DCINN: Deformable Convolution and Inception Based Neural Network for Tattoo Text Detection Through Skin Region. Lecture Notes in Computer Science, 2021, , 335-350.	1.3	4
114	Local Gradient Difference Features for Classification of 2D-3D Natural Scene Text Images. , 2021, , .		4
115	A New Method for Detecting Altered Text in Document Images. International Journal of Pattern Recognition and Artificial Intelligence, 0, , 2160010.	1.2	4
116	A New Method for Detecting Altered Text in Document Images. Lecture Notes in Computer Science, 2020, , 93-108.	1.3	4
117	Deformable scene text detection using harmonic features and modified pixel aggregation network. Pattern Recognition Letters, 2021, 152, 135-142.	4.2	4
118	CNN BASED METHOD FOR MULTI-TYPE DISEASED ARECANUT IMAGE CLASSIFICATION. Malaysian Journal of Computer Science, 2021, 34, 255-265.	0.8	4
119	Document image mosaicing: A novel approach. Sadhana - Academy Proceedings in Engineering Sciences, 2004, 29, 329-341.	1.3	3
120	Word recognition in natural scene and video images using Hidden Markov Model. , 2013, , .		3
121	A quad tree based method for blurred and non-blurred video text frames classification through quality metrics. , 2016, , .		3
122	Symmetry features for license plate classification. CAAI Transactions on Intelligence Technology, 2018, 3, 176-183.	8.1	3
123	A new image size reduction model for an efficient visual sensor network. Journal of Visual Communication and Image Representation, 2019, 63, 102573.	2.8	3
124	Bilingual text detection in natural scene images using invariant moments. Journal of Intelligent and Fuzzy Systems, 2019, 37, 6773-6784.	1.4	3
125	Deep invariant texture features for water image classification. SN Applied Sciences, 2020, 2, 1.	2.9	3
126	Novel Adaptive Binarization Method for Degraded Document Images. Computers, Materials and Continua, 2021, 67, 3815-3832.	1.9	3

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127	Improved Ring Radius Transform-Based Reconstruction for Video Character Recognition. International Journal of Pattern Recognition and Artificial Intelligence, 0, , 2150023.	1.2	3
128	Mining text from natural scene and video images: A survey. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 0, , e1428.	6.8	3
129	Fisher Linear Discriminant Analysis based Technique Useful for Efficient Character Recognition. , 2006, , .		2
130	Character Skew Estimation: A New and Simple Edge based Model. , 2006, , .		2
131	2D and 3D Video Scene Text Classification. , 2014, , .		2
132	Text detection in born-digital images by mass estimation. , 2015, , .		2
133	New texture-spatial features for keyword spotting in video images. , 2015, , .		2
134	A new method based on bag of filters for character recognition in scene images by learning. , 2015, , .		2
135	Rotation invariant angle-density based features for an ice image classification system. Expert Systems With Applications, 2020, 162, 113744.	7.6	2
136	Saliency-based bit plane detection for network applications. Multimedia Tools and Applications, 2020, 79, 18495-18513.	3.9	2
137	Anomaly Detection in Natural Scene Images Based on Enhanced Fine-Grained Saliency and Fuzzy Logic. IEEE Access, 2021, 9, 129102-129109.	4.2	2
138	A New DCT-FFT Fusion Based Method for Caption and Scene Text Classification in Action Video Images. Lecture Notes in Computer Science, 2020, , 80-92.	1.3	2
139	A New Defect Detection Method for Improving Text Detection and Recognition Performances in Natural Scene Images. , 2020, , .		2
140	DCT-DWT-FFT Based Method for Text Detection in Underwater Images. Lecture Notes in Computer Science, 2022, , 218-233.	1.3	2
141	Local Resultant Gradient Vector Difference and Inpainting for 3D Text Detection in the Wild. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	1.2	2
142	A New Deep Fuzzy Based MSER Model for Multiple Document Images Classification. Lecture Notes in Computer Science, 2022, , 358-370.	1.3	2
143	A new ontology-based multimodal classification system for social media images of personality traits. Signal, Image and Video Processing, 2023, 17, 543-551.	2.7	2
144	Unsupervised classification of events: A semantic rule based on color moments of background and foreground method. , 2007, , .		1

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145	NEW EDGE CHARACTERISTICS FOR SCENE AND OBJECT CLASSIFICATION. International Journal of Pattern Recognition and Artificial Intelligence, 2012, 26, 1255001.	1.2	1
146	Weakly-supervised region annotation for understanding scene images. Multimedia Tools and Applications, 2016, 75, 3027-3051.	3.9	1
147	New Fuzzy-Mass Based Features for Video Image Type Categorization. , 2017, , .		1
148	A Connected Component-Based Deep Learning Model for Multi-type Struck-Out Component Classification. Lecture Notes in Computer Science, 2021, , 158-173.	1.3	1
149	Divide-and-Conquer Strategy Incorporated Fisher Linear Discriminant Analysis: An Efficient Approach for Face Recognition. , 2006, , .		1
150	Adaptive Histogram Analysis for Scene Text Binarization and Recognition. Malaysian Journal of Computer Science, 2016, 29, 74-85.	0.8	1
151	A new deep model for family and non-family photo identification. Multimedia Tools and Applications, 2022, 81, 1765-1785.	3.9	1
152	A New Common Points Detection Method for Classification of 2D and 3D Texts in Video/Scene Images. Lecture Notes in Computer Science, 2020, , 512-528.	1.3	1
153	A New Foreground-Background based Method for Behavior-Oriented Social Media Image Classification. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-25.	4.3	1
154	RDMMLND: A New Robust Deep Model for Multiple License Plate Number Detection in Video. Lecture Notes in Computer Science, 2022, , 489-501.	1.3	1
155	Sharpness and Contrast Based Features for Word-Wise Video Type Classification. , 2017, , .		0
156	A deep action-oriented video image classification system for text detection and recognition. SN Applied Sciences, 2021, 3, 1.	2.9	0
157	Cloud of Line Distribution and Random Forest Based Text Detection from Natural/Video Scene Images. Lecture Notes in Computer Science, 2018, , 48-60.	1.3	0
158	Video Text Type Classification. Cognitive Intelligence and Robotics, 2021, , 165-190.	0.6	0
159	Cognitively Inspired Video Text Processing. Cognitive Intelligence and Robotics, 2021, , 1-19.	0.6	0
160	Text and Non-text Frame Classification in Video. Cognitive Intelligence and Robotics, 2021, , 35-60.	0.6	0
161	Word and Character Segmentation. Cognitive Intelligence and Robotics, 2021, , 139-164.	0.6	0
162	Video Text Enhancement for Recognition. Cognitive Intelligence and Robotics, 2021, , 191-232.	0.6	0

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163	New Deep Spatio-Structural Features of Handwritten Text Lines for Document Age Classification. International Journal of Pattern Recognition and Artificial Intelligence, 0, , .	1.2	0