

# Palaiahnakote Shivakumara

## 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.

158  
papers

2,274  
citations

27  
h-index

42  
g-index

168  
ext. papers

2,782  
ext. citations

3.9  
avg, IF

5.38  
L-index

#	Paper	IF	Citations
158	A Laplacian approach to multi-oriented text detection in video. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2011</b> , 33, 412-9	13.3	188
157	A robust arbitrary text detection system for natural scene images. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 8027-8048	7.8	168
156	Recognizing Text with Perspective Distortion in Natural Scenes <b>2013</b> ,		111
155	(2D)2LDA: An efficient approach for face recognition. <i>Pattern Recognition</i> , <b>2006</b> , 39, 1396-1400	7.7	108
154	Graphology based handwritten character analysis for human behaviour identification. <i>CAAI Transactions on Intelligence Technology</i> , <b>2020</b> , 5, 55-65	9.7	68
153	Multioriented Video Scene Text Detection Through Bayesian Classification and Boundary Growing. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2012</b> , 22, 1227-1235	6.4	59
152	A Laplacian Method for Video Text Detection <b>2009</b> ,		55
151	Accurate video text detection through classification of low and high contrast images. <i>Pattern Recognition</i> , <b>2010</b> , 43, 2165-2185	7.7	53
150	New Fourier-Statistical Features in RGB Space for Video Text Detection. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2010</b> , 20, 1520-1532	6.4	51
149	Multi-Spectral Fusion Based Approach for Arbitrarily Oriented Scene Text Detection in Video Images. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 4488-501	8.7	45
148	A new Histogram Oriented Moments descriptor for multi-oriented moving text detection in video. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 7627-7640	7.8	42
147	. <i>IEEE Transactions on Multimedia</i> , <b>2015</b> , 17, 1137-1152	6.6	41
146	Gradient Vector Flow and Grouping-Based Method for Arbitrarily Oriented Scene Text Detection in Video Images. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2013</b> , 23, 1729-1739	6.4	39
145	CNN-RNN based method for license plate recognition. <i>CAAI Transactions on Intelligence Technology</i> , <b>2018</b> , 3, 169-175	9.7	38
144	A Gradient Difference Based Technique for Video Text Detection <b>2009</b> ,		34
143	A Robust Wavelet Transform Based Technique for Video Text Detection <b>2009</b> ,		34
142	A New Method for Arbitrarily-Oriented Text Detection in Video <b>2012</b> ,		33

141	An Efficient Edge Based Technique for Text Detection in Video Frames <b>2008</b> ,		33
140	Bayesian classifier for multi-oriented video text recognition system. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 5554-5566	7.8	32
139	Exact String Matching Algorithms: Survey, Issues, and Future Research Directions. <i>IEEE Access</i> , <b>2019</b> , 7, 69614-69637	3.5	31
138	A blind deconvolution model for scene text detection and recognition in video. <i>Pattern Recognition</i> , <b>2016</b> , 54, 128-148	7.7	31
137	Diagonal Fisher linear discriminant analysis for efficient face recognition. <i>Neurocomputing</i> , <b>2006</b> , 69, 1711-1716	5.4	31
136	Video Script Identification Based on Text Lines <b>2011</b> ,		30
135	Riesz Fractional Based Model for Enhancing License Plate Detection and Recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2018</b> , 28, 2276-2288	6.4	29
134	New Gradient-Spatial-Structural Features for video script identification. <i>Computer Vision and Image Understanding</i> , <b>2015</b> , 130, 35-53	4.3	28
133	Script independent approach for multi-oriented text detection in scene image. <i>Neurocomputing</i> , <b>2017</b> , 242, 96-112	5.4	27
132	A novel forged blurred region detection system for image forensic applications. <i>Expert Systems With Applications</i> , <b>2016</b> , 64, 1-10	7.8	27
131	New Spatial-Gradient-Features for Video Script Identification <b>2012</b> ,		26
130	Multi-Script-Oriented Text Detection and Recognition in Video/Scene/Born Digital Images. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2019</b> , 29, 1145-1162	6.4	25
129	Detecting text in the real world <b>2012</b> ,		24
128	Detection of Curved Text in Video: Quad Tree Based Method <b>2013</b> ,		23
127	A novel mutual nearest neighbor based symmetry for text frame classification in video. <i>Pattern Recognition</i> , <b>2011</b> , 44, 1671-1683	7.7	23
126	A new multi-modal approach to bib number/text detection and recognition in Marathon images. <i>Pattern Recognition</i> , <b>2017</b> , 61, 479-491	7.7	22
125	Video text detection based on filters and edge features <b>2009</b> ,		22
124	A Gradient Vector Flow-Based Method for Video Character Segmentation <b>2011</b> ,		21

123	Fractals based multi-oriented text detection system for recognition in mobile video images. <i>Pattern Recognition</i> , <b>2017</b> , 68, 158-174	7.7	19
122	Rough-fuzzy based scene categorization for text detection and recognition in video. <i>Pattern Recognition</i> , <b>2018</b> , 80, 64-82	7.7	19
121	Fractional poisson enhancement model for text detection and recognition in video frames. <i>Pattern Recognition</i> , <b>2016</b> , 52, 433-447	7.7	18
120	Delaunay triangulation based text detection from multi-view images of natural scene. <i>Pattern Recognition Letters</i> , <b>2020</b> , 129, 92-100	4.7	18
119	A novel ring radius transform for video character reconstruction. <i>Pattern Recognition</i> , <b>2013</b> , 46, 131-140	7.7	17
118	Arbitrarily-oriented multi-lingual text detection in video. <i>Multimedia Tools and Applications</i> , <b>2017</b> , 76, 16625-16655	2.5	16
117	Separation of Graphics (Superimposed) and Scene Text in Video Frames <b>2014</b> ,		15
116	Recognition of Video Text through Temporal Integration <b>2013</b> ,		15
115	An automatic zone detection system for safe landing of UAVs. <i>Expert Systems With Applications</i> , <b>2019</b> , 122, 319-333	7.8	15
114	A novel character segmentation-reconstruction approach for license plate recognition. <i>Expert Systems With Applications</i> , <b>2019</b> , 131, 219-239	7.8	14
113	A new watershed model based system for character segmentation in degraded text lines. <i>AEU - International Journal of Electronics and Communications</i> , <b>2017</b> , 71, 45-52	2.8	14
112	Gradient-Angular-Features for Word-wise Video Script Identification <b>2014</b> ,		14
111	Character shape restoration system through medial axis points in video. <i>Neurocomputing</i> , <b>2015</b> , 161, 183-198	5.4	13
110	Multi-oriented scene text detection in video based on wavelet and angle projection boundary growing. <i>Multimedia Tools and Applications</i> , <b>2014</b> , 72, 515-539	2.5	13
109	Graphics and Scene Text Classification in Video <b>2014</b> ,		13
108	A novel boundary growing approach for accurate skew estimation of binary document images. <i>Pattern Recognition Letters</i> , <b>2006</b> , 27, 791-801	4.7	13
107	A new split based searching for exact pattern matching for natural texts. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200912	3.7	13
106	Text segmentation in degraded historical document images. <i>Egyptian Informatics Journal</i> , <b>2016</b> , 17, 189-197	3.7	12

105	Contour Restoration of Text Components for Recognition in Video/Scene Images. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 5622-5634	8.7	11
104	A new wavelet-Laplacian method for arbitrarily-oriented character segmentation in video text lines <b>2015</b> ,		11
103	Fractional means based method for multi-oriented keyword spotting in video/scene/license plate images. <i>Expert Systems With Applications</i> , <b>2019</b> , 118, 1-19	7.8	11
102	Curved text detection in blurred/non-blurred video/scene images. <i>Multimedia Tools and Applications</i> , <b>2019</b> , 78, 25629-25653	2.5	10
101	Scene Character Detection by an Edge-Ray Filter <b>2013</b> ,		10
100	Fourier Coefficients for Fraud Handwritten Document Classification through Age Analysis <b>2016</b> ,		10
99	New Tampered Features for Scene and Caption Text Classification in Video Frame <b>2016</b> ,		10
98	Piece-wise linearity based method for text frame classification in video. <i>Pattern Recognition</i> , <b>2015</b> , 48, 862-881	7.7	9
97	Text Detection Using Delaunay Triangulation in Video Sequence <b>2014</b> ,		9
96	Kidney segmentation in MR images using active contour model driven by fractional-based energy minimization. <i>Signal, Image and Video Processing</i> , <b>2020</b> , 14, 1361-1368	1.6	8
95	A new unified method for detecting text from marathon runners and sports players in video (PR-D-19-01078R2). <i>Pattern Recognition</i> , <b>2020</b> , 107, 107476	7.7	8
94	Fourier-Residual for Printer Identification <b>2017</b> ,		8
93	PARTITION-BASED PATTERN MATCHING APPROACH FOR EFFICIENT RETRIEVAL OF ARABIC TEXT. <i>Malaysian Journal of Computer Science</i> , <b>2018</b> , 31, 200-209	1.2	8
92	CRNN Based Jersey-Bib Number/Text Recognition in Sports and Marathon Images <b>2019</b> ,		8
91	New Sharpness Features for Image Type Classification Based on Textual Information <b>2016</b> ,		7
90	. <i>IEEE Transactions on Multimedia</i> , <b>2021</b> , 23, 2706-2720	6.6	7
89	Adaptive Multi-Gradient Kernels for Handwriting Based Gender Identification <b>2018</b> ,		7
88	A new ring radius transform-based thinning method for multi-oriented video characters. <i>International Journal on Document Analysis and Recognition</i> , <b>2015</b> , 18, 137-151	3.8	6

87	Scene Character Reconstruction through Medial Axis <b>2013</b> ,		6
86	A Robust Script Identification System for Historical Indian Document Images. <i>Malaysian Journal of Computer Science</i> , <b>2015</b> , 28, 283-300	1.2	6
85	A new Fractal Series Expansion based enhancement model for license plate recognition. <i>Signal Processing: Image Communication</i> , <b>2020</b> , 89, 115958	2.8	6
84	A New RGB Based Fusion for Forged IMEI Number Detection in Mobile Images <b>2018</b> ,		6
83	A new method for multi-oriented graphics-scene-3D text classification in video. <i>Pattern Recognition</i> , <b>2016</b> , 49, 19-42	7.7	5
82	Channel-wise attention model-based fire and rating level detection in video. <i>CAAI Transactions on Intelligence Technology</i> , <b>2019</b> , 4, 117-121	9.7	5
81	Content-oriented multimedia document understanding through cross-media correlation. <i>Multimedia Tools and Applications</i> , <b>2015</b> , 74, 8105-8135	2.5	5
80	A New Laplacian Method for Arbitrarily-Oriented Word Segmentation in Video <b>2014</b> ,		5
79	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2014</b> , 24, 1277-1287	6.4	5
78	Temporal Integration for Word-Wise Caption and Scene Text Identification <b>2017</b> ,		5
77	A new sharpness based approach for character segmentation in License plate images <b>2015</b> ,		5
76	Sliding window based approach for document image mosaicing. <i>Image and Vision Computing</i> , <b>2006</b> , 24, 94-100	3.7	5
75	Graph attention network for detecting license plates in crowded street scenes. <i>Pattern Recognition Letters</i> , <b>2020</b> , 140, 18-25	4.7	5
74	New COLD Feature Based Handwriting Analysis for Ethnicity/Nationality Identification <b>2018</b> ,		5
73	A New GVF Arrow Pattern for Character Segmentation from Double Line License Plate Images <b>2017</b> ,		4
72	Anomaly Detection through Spatio-temporal Context Modeling in Crowded Scenes <b>2014</b> ,		4
71	Multi-oriented moving text detection <b>2014</b> ,		4
70	Scene Character Detection and Recognition with Cooperative Multiple-Hypothesis Framework. <i>IEICE Transactions on Information and Systems</i> , <b>2013</b> , E96.D, 2235-2244	0.6	4

69	New Filter Based Unsupervised Rules for Boolean Blur Metric <b>2007,</b>		4
68	A New DCT-PCM Method for License Plate Number Detection in Drone Images. <i>Pattern Recognition Letters</i> , <b>2021</b> , 148, 45-45	4.7	4
67	A New Shadow Detection and Depth Removal Method for 3D Text Recognition in Scene Images <b>2018,</b>		4
66	Weighted-Gradient Features for Handwritten Line Segmentation <b>2018,</b>		4
65	New Fusion Based Enhancement for Text Detection in Night Video Footage. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 46-56	0.9	4
64	A geometric and fractional entropy-based method for family photo classification. <i>Expert Systems With Applications: X</i> , <b>2019</b> , 3, 100008	3.6	3
63	Bilingual text detection in natural scene images using invariant moments. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2019</b> , 37, 6773-6784	1.6	3
62	Video scene text frames categorization for text detection and recognition <b>2016,</b>		3
61	A quad tree based method for blurred and non-blurred video text frames classification through quality metrics <b>2016,</b>		3
60	DCINN: Deformable Convolution and Inception Based Neural Network for Tattoo Text Detection Through Skin Region. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 335-350	0.9	3
59	An Efficient Text Representation for Searching and Retrieving Classical Diacritical Arabic Text. <i>Procedia Computer Science</i> , <b>2018</b> , 142, 150-157	1.6	3
58	Fourier Transform based Features for Clean and Polluted Water Image Classification <b>2018,</b>		3
57	Multi-Gradient Directional Features for Gender Identification <b>2018,</b>		3
56	A new method based on bag of filters for character recognition in scene images by learning <b>2015,</b>		2
55	Word recognition in natural scene and video images using Hidden Markov Model <b>2013,</b>		2
54	Text detection in born-digital images by mass estimation <b>2015,</b>		2
53	New texture-spatial features for keyword spotting in video images <b>2015,</b>		2
52	2D and 3D Video Scene Text Classification <b>2014,</b>		2

51	Character Skew Estimation: A New and Simple Edge based Model <b>2006,</b>		2
50	A novel technique for estimation of skew in binary text document images based on linear regression analysis. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2005</b> , 30, 69-85	1	2
49	Oil palm tree counting in drone images. <i>Pattern Recognition Letters</i> , <b>2022</b> , 153, 1-9	4.7	2
48	A New DCT-FFT Fusion Based Method for Caption and Scene Text Classification in Action Video Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 80-92	0.9	2
47	A New U-Net Based License Plate Enhancement Model in Night and Day Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 749-763	0.9	2
46	A New Context-Based Method for Restoring Occluded Text in Natural Scene Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 466-480	0.9	2
45	Forged text detection in video, scene, and document images. <i>IET Image Processing</i> , <b>2020</b> , 14, 4744-4755	1.7	2
44	A new augmentation-based method for text detection in night and day license plate images. <i>Multimedia Tools and Applications</i> , <b>2020</b> , 79, 33303-33330	2.5	2
43	Improved Ring Radius Transform-Based Reconstruction for Video Character Recognition. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2150023	1.1	2
42	Mining text from natural scene and video images: A survey. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , e1428	6.9	2
41	An Episodic Learning Network for Text Detection on Human Bodies in Sports Images. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2021</b> , 1-1	6.4	2
40	DCT-DWT-FFT Based Method for Text Detection in Underwater Images. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 218-233	0.9	2
39	Weakly-supervised region annotation for understanding scene images. <i>Multimedia Tools and Applications</i> , <b>2016</b> , 75, 3027-3051	2.5	1
38	Deep invariant texture features for water image classification. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	1
37	Saliency-based bit plane detection for network applications. <i>Multimedia Tools and Applications</i> , <b>2020</b> , 79, 18495-18513	2.5	1
36	New Fuzzy-Mass Based Features for Video Image Type Categorization <b>2017,</b>		1
35	NEW EDGE CHARACTERISTICS FOR SCENE AND OBJECT CLASSIFICATION. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2012</b> , 26, 1255001	1.1	1
34	Unsupervised classification of events: A semantic rule based on color moments of background and foreground method <b>2007,</b>		1



33	Fisher Linear Discriminant Analysis based Technique Useful for Efficient Character Recognition <b>2006,</b>		1
32	Document image mosaicing: A novel approach. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2004</b> , 29, 329-341	1	1
31	Structure Function Based Transform Features for Behavior-Oriented Social Media Image Classification. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 594-608	0.9	1
30	A New Foreground-Background based Method for Behavior-Oriented Social Media Image Classification. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , <b>2021</b> , 17, 1-25	3.4	1
29	Text Detection in Images. <i>Cognitive Intelligence and Robotics</i> , <b>2021</b> , 95-138	0.1	1
28	Deformable scene text detection using harmonic features and modified pixel aggregation network. <i>Pattern Recognition Letters</i> , <b>2021</b> , 152, 135-142	4.7	1
27	A New Method for Detecting Altered Text in Document Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 93-108	0.9	1
26	Rotation invariant angle-density based features for an ice image classification system. <i>Expert Systems With Applications</i> , <b>2020</b> , 162, 113744	7.8	1
25	A Connected Component-Based Deep Learning Model for Multi-type Struck-Out Component Classification. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 158-173	0.9	1
24	Chebyshev-Harmonic-Fourier-Moments and Deep CNNs for Detecting Forged Handwriting <b>2021</b> ,		1
23	Local Gradient Difference Features for Classification of 2D-3D Natural Scene Text Images <b>2021</b> ,		1
22	A new context-based feature for classification of emotions in photographs. <i>Multimedia Tools and Applications</i> , <b>2021</b> , 80, 15589-15618	2.5	1
21	Symmetry features for license plate classification. <i>CAAI Transactions on Intelligence Technology</i> , <b>2018</b> , 3, 176-183	9.7	1
20	A new method for detection and prediction of occluded text in natural scene images. <i>Signal Processing: Image Communication</i> , <b>2021</b> , 116512	2.8	1
19	A new image size reduction model for an efficient visual sensor network. <i>Journal of Visual Communication and Image Representation</i> , <b>2019</b> , 63, 102573	2.7	0
18	Fuzzy and genetic algorithm based approach for classification of personality traits oriented social media images. <i>Knowledge-Based Systems</i> , <b>2022</b> , 241, 108024	7.3	0
17	DCT-phase statistics for forged IMEI numbers and air ticket detection. <i>Expert Systems With Applications</i> , <b>2021</b> , 164, 114014	7.8	0
16	A New Method for Detecting Altered Text in Document Images. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2160010	1.1	0

15	Video Text Detection. <i>Cognitive Intelligence and Robotics</i> , <b>2021</b> , 61-94	0.1
14	A New Common Points Detection Method for Classification of 2D and 3D Texts in Video/Scene Images. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 512-528	0.9
13	Video Text Type Classification. <i>Cognitive Intelligence and Robotics</i> , <b>2021</b> , 165-190	0.1
12	Cognitively Inspired Video Text Processing. <i>Cognitive Intelligence and Robotics</i> , <b>2021</b> , 1-19	0.1
11	Text and Non-text Frame Classification in Video. <i>Cognitive Intelligence and Robotics</i> , <b>2021</b> , 35-60	0.1
10	Word and Character Segmentation. <i>Cognitive Intelligence and Robotics</i> , <b>2021</b> , 139-164	0.1
9	Video Text Enhancement for Recognition. <i>Cognitive Intelligence and Robotics</i> , <b>2021</b> , 191-232	0.1
8	Video Text Recognition. <i>Cognitive Intelligence and Robotics</i> , <b>2021</b> , 233-271	0.1
7	A deep action-oriented video image classification system for text detection and recognition. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1	1.8
6	A new deep model for family and non-family photo identification. <i>Multimedia Tools and Applications</i> , <b>2021</b> , 1	2.5
5	Cloud of Line Distribution and Random Forest Based Text Detection from Natural/Video Scene Images. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 48-60	0.9
4	Anomaly Detection in Natural Scene Images Based on Enhanced Fine-Grained Saliency and Fuzzy Logic. <i>IEEE Access</i> , <b>2021</b> , 9, 129102-129109	3.5
3	A New Deep Wavefront based Model for Text Localization in 3D Video. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2021</b> , 1-1	6.4
2	RDMLND: A New Robust Deep Model for Multiple License Plate Number Detection in Video. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 489-501	0.9
1	A New Deep Fuzzy Based MSER Model for Multiple Document Images Classification. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 358-370	0.9