

Palaiahnakote Shivakumara

List of Publications by Year in Descending Order

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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	Fuzzy and genetic algorithm based approach for classification of personality traits oriented social media images. <i>Knowledge-Based Systems</i> , 2022 , 241, 108024	7.3	0
157	Oil palm tree counting in drone images. <i>Pattern Recognition Letters</i> , 2022 , 153, 1-9	4.7	2
156	DCT-DWT-FFT Based Method for Text Detection in Underwater Images. <i>Lecture Notes in Computer Science</i> , 2022 , 218-233	0.9	2
155	RDMMLND: A New Robust Deep Model for Multiple License Plate Number Detection in Video. <i>Lecture Notes in Computer Science</i> , 2022 , 489-501	0.9	
154	A New Deep Fuzzy Based MSER Model for Multiple Document Images Classification. <i>Lecture Notes in Computer Science</i> , 2022 , 358-370	0.9	
153	Video Text Detection. <i>Cognitive Intelligence and Robotics</i> , 2021 , 61-94	0.1	
152	Video Text Type Classification. <i>Cognitive Intelligence and Robotics</i> , 2021 , 165-190	0.1	
151	Cognitively Inspired Video Text Processing. <i>Cognitive Intelligence and Robotics</i> , 2021 , 1-19	0.1	
150	A New Foreground-Background based Method for Behavior-Oriented Social Media Image Classification. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2021 , 17, 1-25	3.4	1
149	Text and Non-text Frame Classification in Video. <i>Cognitive Intelligence and Robotics</i> , 2021 , 35-60	0.1	
148	Word and Character Segmentation. <i>Cognitive Intelligence and Robotics</i> , 2021 , 139-164	0.1	
147	Video Text Enhancement for Recognition. <i>Cognitive Intelligence and Robotics</i> , 2021 , 191-232	0.1	
146	Video Text Recognition. <i>Cognitive Intelligence and Robotics</i> , 2021 , 233-271	0.1	
145	Text Detection in Images. <i>Cognitive Intelligence and Robotics</i> , 2021 , 95-138	0.1	1
144	A deep action-oriented video image classification system for text detection and recognition. <i>SN Applied Sciences</i> , 2021 , 3, 1	1.8	
143	Deformable scene text detection using harmonic features and modified pixel aggregation network. <i>Pattern Recognition Letters</i> , 2021 , 152, 135-142	4.7	1
142	A New DCT-PCM Method for License Plate Number Detection in Drone Images. <i>Pattern Recognition Letters</i> , 2021 , 148, 45-45	4.7	4

141	DCT-phase statistics for forged IMEI numbers and air ticket detection. <i>Expert Systems With Applications</i> , 2021 , 164, 114014	7.8	0
140	. <i>IEEE Transactions on Multimedia</i> , 2021 , 23, 2706-2720	6.6	7
139	A Connected Component-Based Deep Learning Model for Multi-type Struck-Out Component Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 158-173	0.9	1
138	Anomaly Detection in Natural Scene Images Based on Enhanced Fine-Grained Saliency and Fuzzy Logic. <i>IEEE Access</i> , 2021 , 9, 129102-129109	3.5	
137	Chebyshev-Harmonic-Fourier-Moments and Deep CNNs for Detecting Forged Handwriting 2021 ,		1
136	A New Deep Wavefront based Model for Text Localization in 3D Video. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 1-1	6.4	
135	DCINN: Deformable Convolution and Inception Based Neural Network for Tattoo Text Detection Through Skin Region. <i>Lecture Notes in Computer Science</i> , 2021 , 335-350	0.9	3
134	Local Gradient Difference Features for Classification of 2D-3D Natural Scene Text Images 2021 ,		1
133	A new context-based feature for classification of emotions in photographs. <i>Multimedia Tools and Applications</i> , 2021 , 80, 15589-15618	2.5	1
132	A new method for detection and prediction of occluded text in natural scene images. <i>Signal Processing: Image Communication</i> , 2021 , 116512	2.8	1
131	An Episodic Learning Network for Text Detection on Human Bodies in Sports Images. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 1-1	6.4	2
130	Deep invariant texture features for water image classification. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	1
129	Graphology based handwritten character analysis for human behaviour identification. <i>CAA/ Transactions on Intelligence Technology</i> , 2020 , 5, 55-65	9.7	68
128	Kidney segmentation in MR images using active contour model driven by fractional-based energy minimization. <i>Signal, Image and Video Processing</i> , 2020 , 14, 1361-1368	1.6	8
127	A new unified method for detecting text from marathon runners and sports players in video (PR-D-19-01078R2). <i>Pattern Recognition</i> , 2020 , 107, 107476	7.7	8
126	Saliency-based bit plane detection for network applications. <i>Multimedia Tools and Applications</i> , 2020 , 79, 18495-18513	2.5	1
125	Structure Function Based Transform Features for Behavior-Oriented Social Media Image Classification. <i>Lecture Notes in Computer Science</i> , 2020 , 594-608	0.9	1
124	A New Common Points Detection Method for Classification of 2D and 3D Texts in Video/Scene Images. <i>Lecture Notes in Computer Science</i> , 2020 , 512-528	0.9	

123	A New DCT-FFT Fusion Based Method for Caption and Scene Text Classification in Action Video Images. <i>Lecture Notes in Computer Science</i> , 2020 , 80-92	0.9	2
122	A New U-Net Based License Plate Enhancement Model in Night and Day Images. <i>Lecture Notes in Computer Science</i> , 2020 , 749-763	0.9	2
121	A New Context-Based Method for Restoring Occluded Text in Natural Scene Images. <i>Lecture Notes in Computer Science</i> , 2020 , 466-480	0.9	2
120	A New Method for Detecting Altered Text in Document Images. <i>Lecture Notes in Computer Science</i> , 2020 , 93-108	0.9	1
119	Forged text detection in video, scene, and document images. <i>IET Image Processing</i> , 2020 , 14, 4744-4755	1.7	2
118	Delaunay triangulation based text detection from multi-view images of natural scene. <i>Pattern Recognition Letters</i> , 2020 , 129, 92-100	4.7	18
117	Graph attention network for detecting license plates in crowded street scenes. <i>Pattern Recognition Letters</i> , 2020 , 140, 18-25	4.7	5
116	Rotation invariant angle-density based features for an ice image classification system. <i>Expert Systems With Applications</i> , 2020 , 162, 113744	7.8	1
115	A new Fractal Series Expansion based enhancement model for license plate recognition. <i>Signal Processing: Image Communication</i> , 2020 , 89, 115958	2.8	6
114	A new augmentation-based method for text detection in night and day license plate images. <i>Multimedia Tools and Applications</i> , 2020 , 79, 33303-33330	2.5	2
113	Channel-wise attention model-based fire and rating level detection in video. <i>CAAI Transactions on Intelligence Technology</i> , 2019 , 4, 117-121	9.7	5
112	A geometric and fractional entropy-based method for family photo classification. <i>Expert Systems With Applications: X</i> , 2019 , 3, 100008	3.6	3
111	Curved text detection in blurred/non-blurred video/scene images. <i>Multimedia Tools and Applications</i> , 2019 , 78, 25629-25653	2.5	10
110	Exact String Matching Algorithms: Survey, Issues, and Future Research Directions. <i>IEEE Access</i> , 2019 , 7, 69614-69637	3.5	31
109	A novel character segmentation-reconstruction approach for license plate recognition. <i>Expert Systems With Applications</i> , 2019 , 131, 219-239	7.8	14
108	A new image size reduction model for an efficient visual sensor network. <i>Journal of Visual Communication and Image Representation</i> , 2019 , 63, 102573	2.7	0
107	Bilingual text detection in natural scene images using invariant moments. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 37, 6773-6784	1.6	3
106	CRNN Based Jersey-Bib Number/Text Recognition in Sports and Marathon Images 2019 ,		8

105	Fractional means based method for multi-oriented keyword spotting in video/scene/license plate images. <i>Expert Systems With Applications</i> , 2019 , 118, 1-19	7.8	11
104	An automatic zone detection system for safe landing of UAVs. <i>Expert Systems With Applications</i> , 2019 , 122, 319-333	7.8	15
103	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	6.4	25
102	Rough-fuzzy based scene categorization for text detection and recognition in video. <i>Pattern Recognition</i> , 2018 , 80, 64-82	7.7	19
101	Riesz Fractional Based Model for Enhancing License Plate Detection and Recognition. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 2276-2288	6.4	29
100	CNN-RNN based method for license plate recognition. <i>CAAI Transactions on Intelligence Technology</i> , 2018 , 3, 169-175	9.7	38
99	PARTITION-BASED PATTERN MATCHING APPROACH FOR EFFICIENT RETRIEVAL OF ARABIC TEXT. <i>Malaysian Journal of Computer Science</i> , 2018 , 31, 200-209	1.2	8
98	Cloud of Line Distribution and Random Forest Based Text Detection from Natural/Video Scene Images. <i>Lecture Notes in Computer Science</i> , 2018 , 48-60	0.9	
97	New COLD Feature Based Handwriting Analysis for Ethnicity/Nationality Identification 2018 ,		5
96	A New Shadow Detection and Depth Removal Method for 3D Text Recognition in Scene Images 2018 ,		4
95	A New RGB Based Fusion for Forged IMEI Number Detection in Mobile Images 2018 ,		6
94	An Efficient Text Representation for Searching and Retrieving Classical Diacritical Arabic Text. <i>Procedia Computer Science</i> , 2018 , 142, 150-157	1.6	3
93	Fourier Transform based Features for Clean and Polluted Water Image Classification 2018 ,		3
92	Adaptive Multi-Gradient Kernels for Handwriting Based Gender Identification 2018 ,		7
91	Multi-Gradient Directional Features for Gender Identification 2018 ,		3
90	Weighted-Gradient Features for Handwritten Line Segmentation 2018 ,		4
89	New Fusion Based Enhancement for Text Detection in Night Video Footage. <i>Lecture Notes in Computer Science</i> , 2018 , 46-56	0.9	4
88	A new split based searching for exact pattern matching for natural texts. <i>PLoS ONE</i> , 2018 , 13, e0200912	3.7	13

87	Symmetry features for license plate classification. <i>CAAI Transactions on Intelligence Technology</i> , 2018 , 3, 176-183	9.7	1
86	Script independent approach for multi-oriented text detection in scene image. <i>Neurocomputing</i> , 2017 , 242, 96-112	5.4	27
85	Fractals based multi-oriented text detection system for recognition in mobile video images. <i>Pattern Recognition</i> , 2017 , 68, 158-174	7.7	19
84	Fourier-Residual for Printer Identification 2017 ,		8
83	A New GVF Arrow Pattern for Character Segmentation from Double Line License Plate Images 2017 ,		4
82	A new multi-modal approach to bib number/text detection and recognition in Marathon images. <i>Pattern Recognition</i> , 2017 , 61, 479-491	7.7	22
81	Arbitrarily-oriented multi-lingual text detection in video. <i>Multimedia Tools and Applications</i> , 2017 , 76, 16625-16655	2.5	16
80	A new watershed model based system for character segmentation in degraded text lines. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 71, 45-52	2.8	14
79	New Fuzzy-Mass Based Features for Video Image Type Categorization 2017 ,		1
78	Temporal Integration for Word-Wise Caption and Scene Text Identification 2017 ,		5
77	A new method for multi-oriented graphics-scene-3D text classification in video. <i>Pattern Recognition</i> , 2016 , 49, 19-42	7.7	5
76	Weakly-supervised region annotation for understanding scene images. <i>Multimedia Tools and Applications</i> , 2016 , 75, 3027-3051	2.5	1
75	Contour Restoration of Text Components for Recognition in Video/Scene Images. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 5622-5634	8.7	11
74	A novel forged blurred region detection system for image forensic applications. <i>Expert Systems With Applications</i> , 2016 , 64, 1-10	7.8	27
73	A blind deconvolution model for scene text detection and recognition in video. <i>Pattern Recognition</i> , 2016 , 54, 128-148	7.7	31
72	Text segmentation in degraded historical document images. <i>Egyptian Informatics Journal</i> , 2016 , 17, 189-197	3.7	12
71	Fractional poisson enhancement model for text detection and recognition in video frames. <i>Pattern Recognition</i> , 2016 , 52, 433-447	7.7	18
70	New Sharpness Features for Image Type Classification Based on Textual Information 2016 ,		7

69	Video scene text frames categorization for text detection and recognition 2016,		3
68	A quad tree based method for blurred and non-blurred video text frames classification through quality metrics 2016,		3
67	Fourier Coefficients for Fraud Handwritten Document Classification through Age Analysis 2016,		10
66	New Tampered Features for Scene and Caption Text Classification in Video Frame 2016,		10
65	A new Histogram Oriented Moments descriptor for multi-oriented moving text detection in video. <i>Expert Systems With Applications, 2015, 42, 7627-7640</i>	7.8	42
64	Bayesian classifier for multi-oriented video text recognition system. <i>Expert Systems With Applications, 2015, 42, 5554-5566</i>	7.8	32
63	A new ring radius transform-based thinning method for multi-oriented video characters. <i>International Journal on Document Analysis and Recognition, 2015, 18, 137-151</i>	3.8	6
62	Character shape restoration system through medial axis points in video. <i>Neurocomputing, 2015, 161, 183-198</i>	5.4	13
61	. <i>IEEE Transactions on Multimedia, 2015, 17, 1137-1152</i>	6.6	41
60	Multi-Spectral Fusion Based Approach for Arbitrarily Oriented Scene Text Detection in Video Images. <i>IEEE Transactions on Image Processing, 2015, 24, 4488-501</i>	8.7	45
59	A new method based on bag of filters for character recognition in scene images by learning 2015,		2
58	Piece-wise linearity based method for text frame classification in video. <i>Pattern Recognition, 2015, 48, 862-881</i>	7.7	9
57	New Gradient-Spatial-Structural Features for video script identification. <i>Computer Vision and Image Understanding, 2015, 130, 35-53</i>	4.3	28
56	Content-oriented multimedia document understanding through cross-media correlation. <i>Multimedia Tools and Applications, 2015, 74, 8105-8135</i>	2.5	5
55	A new sharpness based approach for character segmentation in License plate images 2015,		5
54	Text detection in born-digital images by mass estimation 2015,		2
53	New texture-spatial features for keyword spotting in video images 2015,		2
52	A new wavelet-Laplacian method for arbitrarily-oriented character segmentation in video text lines 2015,		11

51	A Robust Script Identification System for Historical Indian Document Images. <i>Malaysian Journal of Computer Science</i> , 2015 , 28, 283-300	1.2	6
50	A New Laplacian Method for Arbitrarily-Oriented Word Segmentation in Video 2014 ,		5
49	Separation of Graphics (Superimposed) and Scene Text in Video Frames 2014 ,		15
48	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014 , 24, 1277-1287	6.4	5
47	Text Detection Using Delaunay Triangulation in Video Sequence 2014 ,		9
46	A robust arbitrary text detection system for natural scene images. <i>Expert Systems With Applications</i> , 2014 , 41, 8027-8048	7.8	168
45	Multi-oriented scene text detection in video based on wavelet and angle projection boundary growing. <i>Multimedia Tools and Applications</i> , 2014 , 72, 515-539	2.5	13
44	Gradient-Angular-Features for Word-wise Video Script Identification 2014 ,		14
43	Graphics and Scene Text Classification in Video 2014 ,		13
42	2D and 3D Video Scene Text Classification 2014 ,		2
41	Anomaly Detection through Spatio-temporal Context Modeling in Crowded Scenes 2014 ,		4
40	Multi-oriented moving text detection 2014 ,		4
39	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> , 2013 , 23, 1729-1739	6.4	39
38	Word recognition in natural scene and video images using Hidden Markov Model 2013 ,		2
37	Recognizing Text with Perspective Distortion in Natural Scenes 2013 ,		111
36	Detection of Curved Text in Video: Quad Tree Based Method 2013 ,		23
35	A novel ring radius transform for video character reconstruction. <i>Pattern Recognition</i> , 2013 , 46, 131-140	7.7	17
34	Scene Character Detection by an Edge-Ray Filter 2013 ,		10

33	Recognition of Video Text through Temporal Integration 2013 ,		15
32	Scene Character Reconstruction through Medial Axis 2013 ,		6
31	Scene Character Detection and Recognition with Cooperative Multiple-Hypothesis Framework. <i>IEICE Transactions on Information and Systems</i> , 2013 , E96.D, 2235-2244	0.6	4
30	Detecting text in the real world 2012 ,		24
29	Multioriented Video Scene Text Detection Through Bayesian Classification and Boundary Growing. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2012 , 22, 1227-1235	6.4	59
28	New Spatial-Gradient-Features for Video Script Identification 2012 ,		26
27	A New Method for Arbitrarily-Oriented Text Detection in Video 2012 ,		33
26	NEW EDGE CHARACTERISTICS FOR SCENE AND OBJECT CLASSIFICATION. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2012 , 26, 1255001	1.1	1
25	A Laplacian approach to multi-oriented text detection in video. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 412-9	13.3	188
24	A Gradient Vector Flow-Based Method for Video Character Segmentation 2011 ,		21
23	Video Script Identification Based on Text Lines 2011 ,		30
22	A novel mutual nearest neighbor based symmetry for text frame classification in video. <i>Pattern Recognition</i> , 2011 , 44, 1671-1683	7.7	23
21	New Fourier-Statistical Features in RGB Space for Video Text Detection. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2010 , 20, 1520-1532	6.4	51
20	Accurate video text detection through classification of low and high contrast images. <i>Pattern Recognition</i> , 2010 , 43, 2165-2185	7.7	53
19	A Gradient Difference Based Technique for Video Text Detection 2009 ,		34
18	Video text detection based on filters and edge features 2009 ,		22
17	A Robust Wavelet Transform Based Technique for Video Text Detection 2009 ,		34
16	A Laplacian Method for Video Text Detection 2009 ,		55

15	An Efficient Edge Based Technique for Text Detection in Video Frames 2008 ,			33
14	Unsupervised classification of events: A semantic rule based on color moments of background and foreground method 2007 ,			1
13	New Filter Based Unsupervised Rules for Boolean Blur Metric 2007 ,			4
12	(2D)2LDA: An efficient approach for face recognition. <i>Pattern Recognition</i> , 2006 , 39, 1396-1400	7.7		108
11	Sliding window based approach for document image mosaicing. <i>Image and Vision Computing</i> , 2006 , 24, 94-100	3.7		5
10	Diagonal Fisher linear discriminant analysis for efficient face recognition. <i>Neurocomputing</i> , 2006 , 69, 1711-1716	5.4		31
9	Character Skew Estimation: A New and Simple Edge based Model 2006 ,			2
8	Fisher Linear Discriminant Analysis based Technique Useful for Efficient Character Recognition 2006 ,			1
7	A novel boundary growing approach for accurate skew estimation of binary document images. <i>Pattern Recognition Letters</i> , 2006 , 27, 791-801	4.7		13
6	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> , 2005 , 30, 69-85	1		2
5	Document image mosaicing: A novel approach. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2004 , 29, 329-341	1		1
4	A new deep model for family and non-family photo identification. <i>Multimedia Tools and Applications</i> , 1	2.5		
3	Improved Ring Radius Transform-Based Reconstruction for Video Character Recognition. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2150023	1.1		2
2	Mining text from natural scene and video images: A survey. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , e1428	6.9		2
1	A New Method for Detecting Altered Text in Document Images. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2160010	1.1		0