Umapada Pal

List of Publications by Year in descending order

243 papers	4,261 citations	270111 25 h-index	274796 44 g-index
255 all docs	255 docs citations	255 times ranked	2663 citing authors

#	Article	IF	Citations
1	A new ontology-based multimodal classification system for social media images of personality traits. Signal, Image and Video Processing, 2023, 17, 543-551.	1.7	2
2	A new convolutional neural network based on a sparse convolutional layer for animal face detection. Multimedia Tools and Applications, 2023, 82, 91-124.	2.6	4
3	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.	5.6	4
4	A new method for detection and prediction of occluded text in natural scene images. Signal Processing: Image Communication, 2022, 100, 116512.	1.8	6
5	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.	5.6	7
6	A new deep model for family and non-family photo identification. Multimedia Tools and Applications, 2022, 81, 1765-1785.	2.6	1
7	MSRF-Net: A Multi-Scale Residual Fusion Network for Biomedical Image Segmentation. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2252-2263.	3.9	118
8	Fuzzy and genetic algorithm based approach for classification of personality traits oriented social media images. Knowledge-Based Systems, 2022, 241, 108024.	4.0	10
9	CNN based recognition of handwritten multilingual city names. Multimedia Tools and Applications, 2022, 81, 11501-11517.	2.6	6
10	Multiâ€gradientâ€direction based deep learning model for arecanut disease identification. CAAI Transactions on Intelligence Technology, 2022, 7, 156-166.	3.4	21
11	DCT-DWT-FFT Based Method for Text Detection in Underwater Images. Lecture Notes in Computer Science, 2022, , 218-233.	1.0	2
12	Text proposals with location-awareness-attention network for arbitrarily shaped scene text detection and recognition. Expert Systems With Applications, 2022, 205, 117564.	4.4	6
13	RDMMLND: A New Robust Deep Model for Multiple License Plate Number Detection in Video. Lecture Notes in Computer Science, 2022, , 489-501.	1.0	1
14	A New Deep Fuzzy Based MSER Model for Multiple Document Images Classification. Lecture Notes in Computer Science, 2022, , 358-370.	1.0	2
15	DCT-phase statistics for forged IMEI numbers and air ticket detection. Expert Systems With Applications, 2021, 164, 114014.	4.4	4
16	Arbitrarily-Oriented Text Detection in Low Light Natural Scene Images. IEEE Transactions on Multimedia, 2021, 23, 2706-2720.	5.2	23
17	Recognizing Bengali Word Images - A Zero-Shot Learning Perspective. , 2021, , .		2
18	Benchmarked multi-script Thai scene text dataset and its multi-class detection solution. Multimedia Tools and Applications, 2021, 80, 11843-11863.	2.6	4

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19	A Connected Component-Based Deep Learning Model for Multi-type Struck-Out Component Classification. Lecture Notes in Computer Science, 2021, , 158-173.	1.0	1
20	ICDAR 2021 Competition on Script Identification in the Wild. Lecture Notes in Computer Science, 2021, , 738-753.	1.0	0
21	Anomaly Detection in Natural Scene Images Based on Enhanced Fine-Grained Saliency and Fuzzy Logic. IEEE Access, 2021, 9, 129102-129109.	2.6	2
22	Chebyshev-Harmonic-Fourier-Moments and Deep CNNs for Detecting Forged Handwriting. , 2021, , .		4
23	DocSynth: A Layout Guided Approach for Controllable Document Image Synthesis. Lecture Notes in Computer Science, 2021, , 555-568.	1.0	12
24	Inception-based Deep Learning Architecture for Tuberculosis Screening using Chest X-rays. , 2021, , .		7
25	DCINN: Deformable Convolution and Inception Based Neural Network for Tattoo Text Detection Through Skin Region. Lecture Notes in Computer Science, 2021, , 335-350.	1.0	4
26	Local Gradient Difference Features for Classification of 2D-3D Natural Scene Text Images. , 2021, , .		4
27	A new context-based feature for classification of emotions in photographs. Multimedia Tools and Applications, 2021, 80, 15589-15618.	2.6	7
28	A new DCT-PCM method for license plate number detection in drone images. Pattern Recognition Letters, 2021, 148, 45-53.	2.6	12
29	Beyond document object detection: instance-level segmentation of complex layouts. International Journal on Document Analysis and Recognition, 2021, 24, 269-281.	2.7	15
30	ARNet: Active-Reference Network for Few-Shot Image Semantic Segmentation. , 2021, , .		5
31	A New Hybrid Method for Caption and Scene Text Classification in Action Video Images. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, .	0.7	3
32	Air Writing: Recognizing Multi-Digit Numeral String Traced in Air Using RNN-LSTM Architecture. SN Computer Science, 2021, 2, 1.	2.3	5
33	A deep action-oriented video image classification system for text detection and recognition. SN Applied Sciences, 2021, 3, 1.	1.5	0
34	Deformable scene text detection using harmonic features and modified pixel aggregation network. Pattern Recognition Letters, 2021, 152, 135-142.	2.6	4
35	Video Text Type Classification. Cognitive Intelligence and Robotics, 2021, , 165-190.	0.6	0
36	Cognitively Inspired Video Text Processing. Cognitive Intelligence and Robotics, 2021, , 1-19.	0.6	0

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37	Conclusion and Future Directions. Cognitive Intelligence and Robotics, 2021, , 273-275.	0.6	0
38	Text and Non-text Frame Classification in Video. Cognitive Intelligence and Robotics, 2021, , 35-60.	0.6	0
39	Word and Character Segmentation. Cognitive Intelligence and Robotics, 2021, , 139-164.	0.6	0
40	Video Text Enhancement for Recognition. Cognitive Intelligence and Robotics, 2021, , 191-232.	0.6	0
41	PAANet: Progressive Alternating Attention for Automatic Medical Image Segmentation. , 2021, , .		4
42	Indic handwritten script identification using offline-online multi-modal deep network. Information Fusion, 2020, 57, 1-14.	11.7	27
43	Delaunay triangulation based text detection from multi-view images of natural scene. Pattern Recognition Letters, 2020, 129, 92-100.	2.6	27
44	DELP-DAR system for license plate detection and recognition. Pattern Recognition Letters, 2020, 129, 213-223.	2.6	52
45	Graph attention network for detecting license plates in crowded street scenes. Pattern Recognition Letters, 2020, 140, 18-25.	2.6	14
46	A new Fractal Series Expansion based enhancement model for license plate recognition. Signal Processing: Image Communication, 2020, 89, 115958.	1.8	11
47	A new augmentation-based method for text detection in night and day license plate images. Multimedia Tools and Applications, 2020, 79, 33303-33330.	2.6	6
48	Deep invariant texture features for water image classification. SN Applied Sciences, 2020, 2, 1.	1.5	3
49	Graphology based handwritten character analysis for human behaviour identification. CAAI Transactions on Intelligence Technology, 2020, 5, 55-65.	3.4	86
50	Truncated inception net: COVID-19 outbreak screening using chest X-rays. Physical and Engineering Sciences in Medicine, 2020, 43, 915-925.	1.3	202
51	Distance Metric Learned Collaborative Representation Classifier(DML-CRC). IEEE Letters of the Computer Society, 2020, 3, 34-37.	1.1	3
52	A new unified method for detecting text from marathon runners and sports players in video (PR-D-19-01078R2). Pattern Recognition, 2020, 107, 107476.	5.1	12
53	A New U-Net Based License Plate Enhancement Model in Night and Day Images. Lecture Notes in Computer Science, 2020, , 749-763.	1.0	6
54	A New Method for Detecting Altered Text in Document Images. Lecture Notes in Computer Science, 2020, , 93-108.	1.0	4

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55	Forged text detection in video, scene, and document images. IET Image Processing, 2020, 14, 4744-4755.	1.4	6
56	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.	1.0	2
57	A Spatial Density and Phase Angle Based Correlation for Multi-type Family Photo Identification. Lecture Notes in Computer Science, 2020, , 76-89.	1.0	2
58	Finding Logo and Seal in Historical Document Images - An Object Detection Based Approach. Lecture Notes in Computer Science, 2020, , 821-834.	1.0	1
59	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.	1.0	1
60	Analysis of Multi-class Classification of EEG Signals Using Deep Learning. Lecture Notes in Computer Science, 2020, , 203-217.	1.0	1
61	A New Defect Detection Method for Improving Text Detection and Recognition Performances in Natural Scene Images. , 2020, , .		2
62	PProCRC: Probabilistic Collaboration of Image Patches for Fine-grained Classification. , 2020, , .		0
63	CoCoNet: A Collaborative Convolutional Network applied to fine-grained bird species classification. , 2020, , .		1
64	Script identification in natural scene image and video frames using an attention based Convolutional-LSTM network. Pattern Recognition, 2019, 85, 172-184.	5.1	101
65	Evaluation of word spotting under improper segmentation scenario. International Journal on Document Analysis and Recognition, 2019, 22, 361-374.	2.7	1
66	A deep one-shot network for query-based logo retrieval. Pattern Recognition, 2019, 96, 106965.	5.1	21
67	Word searching in scene image and video frame in multi-script scenario using dynamic shape coding. Multimedia Tools and Applications, 2019, 78, 7767-7801.	2.6	11
68	Curved text detection in blurred/non-blurred video/scene images. Multimedia Tools and Applications, 2019, 78, 25629-25653.	2.6	15
69	Sclera Segmentation Benchmarking Competition in Cross-resolution Environment. , 2019, , .		17
70	ICDAR2019 Robust Reading Challenge on Multi-lingual Scene Text Detection and Recognition â€" RRC-MLT-2019. , 2019, , .		136
71	Zero Shot Learning Based Script Identification in the Wild. , 2019, , .		7
72	CRNN Based Jersey-Bib Number/Text Recognition in Sports and Marathon Images. , 2019, , .		12

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74	Document Image Retrieval Based on Visual Saliency Maps. , 2019, , .		1
75	Fractional means based method for multi-oriented keyword spotting in video/scene/license plate images. Expert Systems With Applications, 2019, 118, 1-19.	4.4	15
76	A comparative study of different texture features for document image retrieval. Expert Systems With Applications, 2019, 121, 97-114.	4.4	21
77	Multi-Script-Oriented Text Detection and Recognition in Video/Scene/Born Digital Images. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1145-1162.	5.6	38
78	Bag-of-visual-words for signature-based multi-script document retrieval. Neural Computing and Applications, 2019, 31, 6223-6247.	3.2	7
79	A New Roadmap for Evaluating Descriptive Handwritten Answer Script. , 2019, , 83-96.		1
80	Rough-fuzzy based scene categorization for text detection and recognition in video. Pattern Recognition, 2018, 80, 64-82.	5.1	24
81	Product graph-based higher order contextual similarities for inexact subgraph matching. Pattern Recognition, 2018, 76, 596-611.	5.1	17
82	LOOP Descriptor: Local Optimal-Oriented Pattern. IEEE Signal Processing Letters, 2018, 25, 635-639.	2.1	101
83	Date-field retrieval in scene image and video frames using text enhancement and shape coding. Neurocomputing, 2018, 274, 37-49.	3.5	16
84	Frame selection for OCR from video stream of book flipping. Multimedia Tools and Applications, 2018, 77, 985-1008.	2.6	3
85	Riesz Fractional Based Model for Enhancing License Plate Detection and Recognition. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2276-2288.	5.6	59
86	Comparative study of conventional time series matching techniques for word spotting. Pattern Recognition, 2018, 73, 47-64.	5.1	15
87	Multi-oriented text detection and verification in video frames and scene images. Neurocomputing, 2018, 275, 1531-1549.	3.5	34
88	New COLD Feature Based Handwriting Analysis for Enthnicity/Nationality Identification. , 2018, , .		7
89	A New Shadow Detection and Depth Removal Method for 3D Text Recognition in Scene Images. , 2018, , .		5
90	A New RGB Based Fusion for Forged IMEI Number Detection in Mobile Images. , 2018, , .		9

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91	ICFHR 2018 Competition on Thai Student Signatures and Name Components Recognition and Verification (TSNCRV2018). , 2018, , .		5
92	Thai Automatic signature verification System Employing Textural Features. IET Biometrics, 2018, 7, 615-627.	1.6	7
93	Fourier Transform based Features for Clean and Polluted Water Image Classification. , 2018, , .		6
94	A CNN Based Framework for Unistroke Numeral Recognition in Air-Writing. , 2018, , .		27
95	Adaptive Multi-Gradient Kernels for Handwritting Based Gender Identification. , 2018, , .		15
96	Learning Cross-Modal Deep Embeddings for Multi-Object Image Retrieval using Text and Sketch. , 2018, , .		16
97	Multi-Gradient Directional Features for Gender Identification. , 2018, , .		10
98	Weighted-Gradient Features for Handwritten Line Segmentation. , 2018, , .		6
99	New Fusion Based Enhancement for Text Detection in Night Video Footage. Lecture Notes in Computer Science, 2018, , 46-56.	1.0	6
100	More Realistic and Efficient Face-Based Mobile Authentication using CNNs. , 2018, , .		0
101	Symmetry features for license plate classification. CAAI Transactions on Intelligence Technology, 2018, 3, 176-183.	3.4	3
102	Evaluation of Gist Operator for Document Image Retrieval. , 2018, , .		2
103	SSBC 2018: Sclera Segmentation Benchmarking Competition. , 2018, , .		14
104	CNNâ€RNN based method for license plate recognition. CAAI Transactions on Intelligence Technology, 2018, 3, 169-175.	3.4	62
105	Text recognition in scene image and video frame using Color Channel selection. Multimedia Tools and Applications, 2018, 77, 8551-8578.	2.6	29
106	Keyword spotting in doctor's handwriting on medical prescriptions. Expert Systems With Applications, 2017, 76, 113-128.	4.4	18
107	Script independent approach for multi-oriented text detection in scene image. Neurocomputing, 2017, 242, 96-112.	3.5	33
108	An Efficient Signature Verification Method Based on an Interval Symbolic Representation and a Fuzzy Similarity Measure. IEEE Transactions on Information Forensics and Security, 2017, 12, 2360-2372.	4.5	51

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109	HMM-based writer identification in music score documents without staff-line removal. Expert Systems With Applications, 2017, 89, 222-240.	4.4	7
110	A new multi-modal approach to bib number/text detection and recognition in Marathon images. Pattern Recognition, 2017, 61, 479-491.	5.1	33
111	Shallow Neural Network Model for Hand-Drawn Symbol Recognition in Multi-Writer Scenario. , 2017, , .		5
112	SSERBC 2017: Sclera segmentation and eye recognition benchmarking competition. , 2017, , .		28
113	An Automatic Student Verification System Utilising Off-Line Thai Name Components. , 2017, , .		3
114	Linking face images captured from the optical phenomenon in the wild for forensic science. , 2017, , .		1
115	ICDAR2017 Robust Reading Challenge on Multi-Lingual Scene Text Detection and Script Identification - RRC-MLT. , 2017, , .		233
116	New Fuzzy-Mass Based Features for Video Image Type Categorization. , 2017, , .		1
117	Text Independent Writer Identification for Telugu Script Using Directional Filter Based Features. , 2017, , .		3
118	Temporal Integration for Word-Wise Caption and Scene Text Identification. , 2017, , .		5
119	Bringing Back Hieroglyph. , 2017, , .		0
120	A decision-level fusion strategy for multimodal ocular biometric in visible spectrum based on posterior probability. , 2017, , .		2
121	Sharpness and Contrast Based Features for Word-Wise Video Type Classification. , 2017, , .		0
122	Pincode detection using deep CNN for postal automation. , 2017, , .		7
123	Fourier-Residual for Printer Identification. , 2017, , .		8
124	Local Behavior Analysis for Trajectory Classification Using Graph Embedding. , 2017, , .		1
125	A New GVF Arrow Pattern for Character Segmentation from Double Line License Plate Images. , 2017, , .		5
126	Writer Identification in Indic Scripts: A Stroke Distribution Based Approach. , 2017, , .		3

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127	New Sharpness Features for Image Type Classification Based on Textual Information. , 2016, , .		9
128	Video scene text frames categorization for text detection and recognition. , 2016, , .		6
129	A scale and rotation invariant scheme for multi-oriented Character Recognition. , 2016, , .		7
130	Compact correlated features for writer independent signature verification. , 2016, , .		54
131	An Automatic Off-Line Short Answer Assessment System Using Novel Hybrid Features. , 2016, , .		1
132	SSRBC 2016: Sclera Segmentation and Recognition Benchmarking Competition. , 2016, , .		24
133	Fast and efficent multimodal eye biometrics using projective dictionary pair learning. , 2016, , .		4
134	Collaborative representation based fine-grained species recognition. , 2016, , .		9
135	Fourier Coefficients for Fraud Handwritten Document Classification through Age Analysis. , 2016, , .		14
136	New Tampered Features for Scene and Caption Text Classification in Video Frame. , 2016, , .		11
137	HMM-based Indic handwritten word recognition using zone segmentation. Pattern Recognition, 2016, 60, 1057-1075.	5.1	87
138	Multi‚Äêscript versus single‚Äêscript scenarios in automatic off‚Äêline signature verification. IET Biometrics, 2016, 5, 305-313.	1.6	18
139	Logo and seal based administrative document image retrieval: A survey. Computer Science Review, 2016, 22, 47-63.	10.2	25
140	Flexible Sequence Matching technique: An effective learning-free approach for word spotting. Pattern Recognition, 2016, 60, 596-612.	5.1	5
141	Baseline detection of multi-lingual unconstrained handwritten text lines. Pattern Recognition Letters, 2016, 74, 74-81.	2.6	7
142	Fractional poisson enhancement model for text detection and recognition in video frames. Pattern Recognition, 2016, 52, 433-447.	5.1	28
143	Retrieval of scene image and video frames using date field spotting. , 2015, , .		1
144	New texture-spatial features for keyword spotting in video images. , 2015, , .		2

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145	Performance evaluation of DTW and its variants for word spotting in degraded documents. , 2015, , .		4
146	Exemplary Sequence Cardinality: An effective application for word spotting. , 2015, , .		2
147	ICDAR2015 Competition on Video Script Identification (CVSI 2015). , 2015, , .		35
148	Bayesian classifier for multi-oriented video text recognition system. Expert Systems With Applications, 2015, 42, 5554-5566.	4.4	38
149	A new ring radius transform-based thinning method for multi-oriented video characters. International Journal on Document Analysis and Recognition, 2015, 18, 137-151.	2.7	6
150	Short answer question examination using an automatic off-line handwriting recognition system and a novel combined feature. , 2015, , .		1
151	A new method based on bag of filters for character recognition in scene images by learning. , 2015, , .		2
152	Piece-wise linearity based method for text frame classification in video. Pattern Recognition, 2015, 48, 862-881.	5.1	11
153	Multiple Training - One Test Methodology for Handwritten Word-Script Identification. , 2014, , .		7
154	Offline Hand-Written Musical Symbol Recognition. , 2014, , .		5
155	Word searching in unconstrained layout using character pair coding. International Journal on Document Analysis and Recognition, 2014, 17, 343-358.	2.7	0
156	Flexible Sequence Matching Technique: Application to Word Spotting in Degraded Documents. , 2014, , .		8
157	Semi-supervised Online Bayesian Network Learner for Handwritten Characters Recognition. , 2014, , .		7
158	Off-Line Handwritten Bilingual Name Recognition for Student Identification in an Automated Assessment System. , 2014, , .		3
159	A new wrist vein biometric system. , 2014, , .		21
160	Segmentation-Free Keyword Spotting for Bangla Handwritten Documents. , 2014, , .		8
161	Fuzzy logic based selera recognition. , 2014, , .		8
162	Off-line handwritten Thai name recognition for student identification in an automated assessment system. , 2014, , .		4

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163	Multi-angle based lively sclera biometrics at a distance. , 2014, , .		15
164	Language, Script, and Font Recognition. , 2014, , 291-330.		4
165	Wavelet-based approach for writer identification in music score. , 2014, , .		1
166	Design of Unsupervised Feature Extraction System for On-line Bangla Handwriting Recognition. , 2014, , .		10
167	A study on word-level multi-script identification from video frames. , 2014, , .		16
168	Multi-oriented scene text detection in video based on wavelet and angle projection boundary growing. Multimedia Tools and Applications, 2014, 72, 515-539.	2.6	21
169	Offâ€line verification technique for Hindi signatures. IET Biometrics, 2013, 2, 182-190.	1.6	17
170	LBP Based Line-Wise Script Identification. , 2013, , .		31
171	Signature segmentation and recognition from scanned documents. , 2013, , .		4
172	Sclera Recognition - A Survey. , 2013, , .		35
173	Semi-supervised Online Learning of Handwritten Characters Using a Bayesian Classifier. , 2013, , .		4
174	Sclera recognition using dense-SIFT. , 2013, , .		20
175	A novel ring radius transform for video character reconstruction. Pattern Recognition, 2013, 46, 131-140.	5.1	18
176	A Two-Stage Approach for Word Spotting in Graphical Documents. , 2013, , .		6
177	OCR from Video Stream of Book Flipping. , 2013, , .		3
178	A New Method for Character Segmentation from Multi-oriented Video Words. , 2013, , .		9
179	ICDAR 2013 Handwriting Segmentation Contest. , 2013, , .		112
180	Tamil Handwritten City Name Database Development and Recognition for Postal Automation. , 2013, , .		21

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181	A Fast Word Retrieval Technique Based on Kernelized Locality Sensitive Hashing. , 2013, , .		3
182	Duplicate open page removal from video stream of book flipping. , 2013, , .		1
183	HMM-Based Multi Oriented Text Recognition in Natural Scene Image. , 2013, , .		15
184	SVM AND NN BASED OFFLINE SIGNATURE VERIFICATION. International Journal of Computational Intelligence and Applications, 2013, 12, 1340004.	0.6	4
185	SIGNATURE SEGMENTATION FROM MACHINE PRINTED DOCUMENTS USING CONTEXTUAL INFORMATION. International Journal of Pattern Recognition and Artificial Intelligence, 2012, 26, 1253003.	0.7	6
186	DATASET AND GROUND TRUTH FOR HANDWRITTEN TEXT IN FOUR DIFFERENT SCRIPTS. International Journal of Pattern Recognition and Artificial Intelligence, 2012, 26, 1253001.	0.7	39
187	Text line extraction in graphical documents using background and foreground information. International Journal on Document Analysis and Recognition, 2012, 15, 227-241.	2.7	21
188	Similar shaped part-based character recognition using G-SURF. , 2012, , .		0
189	Hindi Off-Line Signature Verification. , 2012, , .		11
190	Cursive Handwritten Segmentation and Recognition for Instructional Videos. , 2012, , .		3
191	Multi-script off-line signature identification. , 2012, , .		19
192	Multi-lingual City Name Recognition for Indian Postal Automation. , 2012, , .		23
193	Handwriting Recognition in Indian Regional Scripts. ACM Transactions on Asian Language Information Processing, 2012, 11, 1-35.	0.8	90
194	Signature Based Document Retrieval Using GHT of Background Information. , 2012, , .		8
195	A New Method for Word Segmentation from Arbitrarily-Oriented Video Text Lines. , 2012, , .		13
196	Off-line English and Chinese signature identification using foreground and background features. , 2012, , .		14
197	A Comparative Study of Persian/Arabic Handwritten Character Recognition. , 2012, , .		8
198	Stroke Segmentation and Recognition from Bangla Online Handwritten Text. , 2012, , .		24

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199	Recent Advances in Video Based Document Processing: A Review. , 2012, , .		41
200	A New Method for Arbitrarily-Oriented Text Detection in Video. , 2012, , .		43
201	Off-Line Bangla Signature Verification. , 2012, , .		16
202	Text Independent Writer Identification for Oriya Script. , 2012, , .		31
203	Multi-oriented touching text character segmentation in graphical documents using dynamic programming. Pattern Recognition, 2012, 45, 1972-1983.	5.1	32
204	Identification of Indic Scripts on Torn-Documents. , 2011, , .		6
205	Off-line Signature Identification Using Background and Foreground Information. , 2011, , .		24
206	Handwritten Street Name Recognition for Indian Postal Automation. , 2011, , .		10
207	Signature Segmentation from Machine Printed Documents Using Conditional Random Field. , 2011, , .		10
208	A New Text-Line Alignment Approach Based on Piece-Wise Painting Algorithm for Handwritten Documents. , 2011, , .		7
209	Offline Recognition of Devanagari Script: A Survey. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 782-796.	3.3	115
210	A Benchmark Kannada Handwritten Document Dataset and Its Segmentation. , 2011, , .		27
211	A New Dataset of Persian Handwritten Documents and Its Segmentation. , 2011, , .		6
212	A New Gradient Based Character Segmentation Method for Video Text Recognition. , 2011, , .		30
213	Piece-wise painting technique for line segmentation of unconstrained handwritten text: a specific study with Persian text documents. Pattern Analysis and Applications, 2011, 14, 381-394.	3.1	20
214	A new scheme for unconstrained handwritten text-line segmentation. Pattern Recognition, 2011, 44, 917-928.	5.1	87
215	Document seal detection using GHT and character proximity graphs. Pattern Recognition, 2011, 44, 1282-1295.	5.1	31
216	A novel mutual nearest neighbor based symmetry for text frame classification in video. Pattern Recognition, 2011, 44, 1671-1683.	5.1	25

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217	A Painting Based Technique for Skew Estimation of Scanned Documents. , 2011, , .		7
218	Multi-oriented Bangla and Devnagari text recognition. Pattern Recognition, 2010, 43, 4124-4136.	5.1	47
219	Script Identification – A Han and Roman Script Perspective. , 2010, , .		15
220	Word-Wise Handwritten Persian and Roman Script Identification. , 2010, , .		18
221	Document-Zone Classification in Torn Documents. , 2010, , .		3
222	A Baseline Dependent Approach for Persian Handwritten Character Segmentation. , 2010, , .		6
223	Bangla and English City Name Recognition for Indian Postal Automation. , 2010, , .		11
224	Shape Code Based Word-Image Matching for Retrieval of Indian Multi-lingual Documents. , 2010, , .		11
225	Text Independent Writer Identification for Bengali Script. , 2010, , .		27
226	A New Two-Stage Scheme for the Recognition of Persian Handwritten Characters. , 2010, , .		14
227	A New Symmetry Based on Proximity of Wavelet-Moments for Text Frame Classification in Video. , 2010, , .		1
228	A New Method for Handwritten Scene Text Detection in Video. , 2010, , .		8
229	Comparative Study of Devnagari Handwritten Character Recognition Using Different Feature and Classifiers. , 2009, , .		64
230	Indian Multi-Script Full Pin-code String Recognition for Postal Automation. , 2009, , .		21
231	F-ratio Based Weighted Feature Extraction for Similar Shape Character Recognition. , 2009, , .		23
232	Using Modified Contour Features and SVM Based Classifier for the Recognition of Persian/Arabic Handwritten Numerals. , 2009, , .		30
233	A Lexicon-Driven Handwritten City-Name Recognition Scheme for Indian Postal Automation. IEICE Transactions on Information and Systems, 2009, E92-D, 1146-1158.	0.4	24
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235	Multi-Oriented English Text Line Extraction Using Background and Foreground Information. , 2008, , .		11
236	Recognition of Multi-oriented Touching Characters in Graphical Documents. , 2008, , .		10
237	Text/Graphics Separation in Color Maps. , 2007, , .		25
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239	Improved Ring Radius Transform-Based Reconstruction for Video Character Recognition. International Journal of Pattern Recognition and Artificial Intelligence, 0, , 2150023.	0.7	3
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