

Cheng-Lin Liu

List of Publications by Year in descending order

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143
papers

8,224
citations

87888

38
h-index

62596

80
g-index

147
all docs

147
docs citations

147
times ranked

4709
citing authors

#	ARTICLE	IF	CITATIONS
1	Dense Trajectories and Motion Boundary Descriptors for Action Recognition. International Journal of Computer Vision, 2013, 103, 60-79.	15.6	1,329
2	Handwritten digit recognition: benchmarking of state-of-the-art techniques. Pattern Recognition, 2003, 36, 2271-2285.	8.1	449
3	A Hybrid Approach to Detect and Localize Texts in Natural Scene Images. IEEE Transactions on Image Processing, 2011, 20, 800-813.	9.8	315
4	CASIA Online and Offline Chinese Handwriting Databases. , 2011, , .		307
5	Practical Block-Wise Neural Network Architecture Generation. , 2018, , .		296
6	Deep Direct Regression for Multi-oriented Scene Text Detection. , 2017, , .		276
7	Online recognition of chinese characters: the state-of-the-art. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 198-213.	13.9	270
8	Handwritten digit recognition: investigation of normalization and feature extraction techniques. Pattern Recognition, 2004, 37, 265-279.	8.1	251
9	Online and offline handwritten Chinese character recognition: Benchmarking on new databases. Pattern Recognition, 2013, 46, 155-162.	8.1	248
10	Drawing and Recognizing Chinese Characters with Recurrent Neural Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 849-862.	13.9	245
11	Online and offline handwritten Chinese character recognition: A comprehensive study and new benchmark. Pattern Recognition, 2017, 61, 348-360.	8.1	228
12	Multisource Transfer Learning for Cross-Subject EEG Emotion Recognition. IEEE Transactions on Cybernetics, 2019, 50, 1-13.	9.5	171
13	Handwritten Chinese Text Recognition by Integrating Multiple Contexts. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 1469-1481.	13.9	143
14	Evaluation of prototype learning algorithms for nearest-neighbor classifier in application to handwritten character recognition. Pattern Recognition, 2001, 34, 601-615.	8.1	141
15	Lexicon-driven segmentation and recognition of handwritten character strings for Japanese address reading. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2002, 24, 1425-1437.	13.9	141
16	TextDragon: An End-to-End Framework for Arbitrary Shaped Text Spotting. , 2019, , .		128
17	Improving handwritten Chinese text recognition using neural network language models and convolutional neural network shape models. Pattern Recognition, 2017, 65, 251-264.	8.1	126
18	Arbitrary Shape Scene Text Detection With Adaptive Text Region Representation. , 2019, , .		124

#	ARTICLE	IF	CITATIONS
19	Handwritten Chinese text line segmentation by clustering with distance metric learning. Pattern Recognition, 2009, 42, 3146-3157.	8.1	123
20	Normalization-Cooperated Gradient Feature Extraction for Handwritten Character Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1465-1469.	13.9	116
21	Classifier combination based on confidence transformation. Pattern Recognition, 2005, 38, 11-28.	8.1	105
22	Discriminative Learning Quadratic Discriminant Function for Handwriting Recognition. IEEE Transactions on Neural Networks, 2004, 15, 430-444.	4.2	104
23	A new benchmark on the recognition of handwritten Bangla and Farsi numeral characters. Pattern Recognition, 2009, 42, 3287-3295.	8.1	94
24	Effects of classifier structures and training regimes on integrated segmentation and recognition of handwritten numeral strings. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1395-1407.	13.9	86
25	Multi-Oriented and Multi-Lingual Scene Text Detection With Direct Regression. IEEE Transactions on Image Processing, 2018, 27, 5406-5419.	9.8	84
26	Data-Distortion Guided Self-Distillation for Deep Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 5565-5572.	4.9	82
27	Performance evaluation of pattern classifiers for handwritten character recognition. International Journal on Document Analysis and Recognition, 2002, 4, 191-204.	3.4	78
28	Pseudo two-dimensional shape normalization methods for handwritten Chinese character recognition. Pattern Recognition, 2005, 38, 2242-2255.	8.1	77
29	Towards Robust Pattern Recognition: A Review. Proceedings of the IEEE, 2020, 108, 894-922.	21.3	76
30	Common Sense Knowledge for Handwritten Chinese Text Recognition. Cognitive Computation, 2013, 5, 234-242.	5.2	73
31	Handwritten Chinese/Japanese Text Recognition Using Semi-Markov Conditional Random Fields. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2413-2426.	13.9	67
32	Writer Adaptation with Style Transfer Mapping. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1773-1787.	13.9	66
33	Total-Text: toward orientation robustness in scene text detection. International Journal on Document Analysis and Recognition, 2020, 23, 31-52.	3.4	66
34	LG-CNN: From local parts to global discrimination for fine-grained recognition. Pattern Recognition, 2017, 71, 118-131.	8.1	60
35	Regularized margin-based conditional log-likelihood loss for prototype learning. Pattern Recognition, 2010, 43, 2428-2438.	8.1	59
36	A robust model for on-line handwritten japanese text recognition. International Journal on Document Analysis and Recognition, 2010, 13, 121-131.	3.4	57

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37	Handwritten Mathematical Expression Recognition via Paired Adversarial Learning. International Journal of Computer Vision, 2020, 128, 2386-2401.	15.6	57
38	Contextual text/non-text stroke classification in online handwritten notes with conditional random fields. Pattern Recognition, 2014, 47, 959-968.	8.1	56
39	BlockQNN: Efficient Block-Wise Neural Network Architecture Generation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2314-2328.	13.9	54
40	Convolutional Prototype Network for Open Set Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, PP, 1-1.	13.9	53
41	High accuracy handwritten Chinese character recognition using LDA-based compound distances. Pattern Recognition, 2008, 41, 3442-3451.	8.1	52
42	An approach for real-time recognition of online Chinese handwritten sentences. Pattern Recognition, 2012, 45, 3661-3675.	8.1	51
43	ICDAR 2011 Chinese Handwriting Recognition Competition. , 2011, , .		48
44	Class-specific feature polynomial classifier for pattern classification and its application to handwritten numeral recognition. Pattern Recognition, 2006, 39, 669-681.	8.1	43
45	LightweightNet: Toward fast and lightweight convolutional neural networks via architecture distillation. Pattern Recognition, 2019, 88, 272-284.	8.1	39
46	Realtime multi-scale scene text detection with scale-based region proposal network. Pattern Recognition, 2020, 98, 107026.	8.1	36
47	Error-correcting output codes based ensemble feature extraction. Pattern Recognition, 2013, 46, 1091-1100.	8.1	35
48	Integrating Language Model in Handwritten Chinese Text Recognition. , 2009, , .		33
49	Geometry preserving multi-task metric learning. Machine Learning, 2013, 92, 133-175.	5.4	33
50	Adaptive spatial pooling for image classification. Pattern Recognition, 2016, 55, 58-67.	8.1	33
51	Dynamical Channel Pruning by Conditional Accuracy Change for Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 799-813.	11.3	32
52	A robust approach to text line grouping in online handwritten Japanese documents. Pattern Recognition, 2009, 42, 2077-2088.	8.1	28
53	Page Object Detection from PDF Document Images by Deep Structured Prediction and Supervised Clustering. , 2018, , .		28
54	Task-Driven Feature Pooling for Image Classification. , 2015, , .		27

#	ARTICLE	IF	CITATIONS
55	Discriminative quadratic feature learning for handwritten Chinese character recognition. Pattern Recognition, 2016, 49, 7-18.	8.1	26
56	Minimum-risk training for semi-Markov conditional random fields with application to handwritten Chinese/Japanese text recognition. Pattern Recognition, 2014, 47, 1904-1916.	8.1	24
57	Image-to-Markup Generation via Paired Adversarial Learning. Lecture Notes in Computer Science, 2019, , 18-34.	1.3	24
58	Traffic Sign Detection Using a Cascade Method With Fast Feature Extraction and Saliency Test. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3290-3302.	8.0	23
59	SDE: A Novel Selective, Discriminative and Equalizing Feature Representation for Visual Recognition. International Journal of Computer Vision, 2017, 124, 145-168.	15.6	23
60	Transcript mapping for handwritten Chinese documents by integrating character recognition model and geometric context. Pattern Recognition, 2013, 46, 2807-2818.	8.1	21
61	Instance GNN: A Learning Framework for Joint Symbol Segmentation and Recognition in Online Handwritten Diagrams. IEEE Transactions on Multimedia, 2022, 24, 2580-2594.	7.2	20
62	Evaluation of weighted Fisher criteria for large category dimensionality reduction in application to Chinese handwriting recognition. Pattern Recognition, 2013, 46, 2599-2611.	8.1	19
63	Oracle Character Recognition by Nearest Neighbor Classification with Deep Metric Learning. , 2019, , .		19
64	MuLReNets: Multilingual text recognition networks for simultaneous script identification and handwriting recognition. Pattern Recognition, 2020, 108, 107555.	8.1	19
65	Online Handwritten Japanese Character String Recognition Using Conditional Random Fields. , 2009, , .		18
66	An over-segmentation method for single-touching Chinese handwriting with learning-based filtering. International Journal on Document Analysis and Recognition, 2014, 17, 91-104.	3.4	17
67	Partial discriminative training for classification of overlapping classes in document analysis. International Journal on Document Analysis and Recognition, 2008, 11, 53-65.	3.4	16
68	A Tool for Ground-Truthing Text Lines and Characters in Off-Line Handwritten Chinese Documents. , 2009, , .		16
69	Integrating Geometric Context for Text Alignment of Handwritten Chinese Documents. , 2010, , .		16
70	Maxi-Min discriminant analysis via online learning. Neural Networks, 2012, 34, 56-64.	5.9	16
71	Visual Gesture Character String Recognition by Classification-Based Segmentation with Stroke Deletion. , 2013, , .		16
72	Online semi-supervised learning with learning vector quantization. Neurocomputing, 2020, 399, 467-478.	5.9	16

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73	Unsupervised language model adaptation for handwritten Chinese text recognition. Pattern Recognition, 2014, 47, 1202-1216.	8.1	15
74	Multi-class segmentation of free-form online documents with tree conditional random fields. International Journal on Document Analysis and Recognition, 2014, 17, 313-329.	3.4	15
75	A Sparse Projection and Low-Rank Recovery Framework for Handwriting Representation and Salient Stroke Feature Extraction. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-26.	4.5	15
76	Residual Dual Scale Scene Text Spotting by Fusing Bottom-Up and Top-Down Processing. International Journal of Computer Vision, 2021, 129, 619-637.	15.6	15
77	One-Vs-All Training of Prototype Classifier for Pattern Classification and Retrieval. , 2010, , .		14
78	Improving Handwritten Chinese Text Recognition by Confidence Transformation. , 2011, , .		13
79	A multi-task framework for metric learning with common subspace. Neural Computing and Applications, 2013, 22, 1337-1347.	5.6	13
80	Keyword spotting in unconstrained handwritten Chinese documents using contextual word model. Image and Vision Computing, 2013, 31, 958-968.	4.5	13
81	Deep Neural Network Self-Distillation Exploiting Data Representation Invariance. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 257-269.	11.3	13
82	Weakly Supervised Learning for Over-Segmentation Based Handwritten Chinese Text Recognition. , 2020, , .		13
83	Decision-Based Adversarial Attack With Frequency Mixup. IEEE Transactions on Information Forensics and Security, 2022, 17, 1038-1052.	6.9	13
84	Keyword Spotting from Online Chinese Handwritten Documents Using One-vs-All Trained Character Classifier. , 2010, , .		12
85	Dimensionality Reduction by Minimal Distance Maximization. , 2010, , .		12
86	Perceptron Learning of Modified Quadratic Discriminant Function. , 2011, , .		12
87	CASIA-AHCDB: A Large-Scale Chinese Ancient Handwritten Characters Database. , 2019, , .		12
88	Meta-Prototypical Learning for Domain-Agnostic Few-Shot Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6990-6996.	11.3	12
89	Contextual Stroke Classification in Online Handwritten Documents with Graph Attention Networks. , 2019, , .		11
90	Semantic-Aware Video Text Detection. , 2021, , .		11

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91	Joint learning of error-correcting output codes and dichotomizers from data. Neural Computing and Applications, 2012, 21, 715-724.	5.6	10
92	Learning-Based Candidate Segmentation Scoring for Real-Time Recognition of Online Overlaid Chinese Handwriting. , 2013, , .		10
93	Character confidence based on N-best list for keyword spotting in online Chinese handwritten documents. Pattern Recognition, 2014, 47, 1880-1890.	8.1	10
94	Multi-Task Low-Rank Metric Learning Based on Common Subspace. Lecture Notes in Computer Science, 2011, , 151-159.	1.3	10
95	Printed/Handwritten Texts and Graphics Separation in Complex Documents Using Conditional Random Fields. , 2018, , .		9
96	Fast genre classification of web images using global and local features. CAAI Transactions on Intelligence Technology, 2018, 3, 161-168.	8.1	9
97	Special issue on deep learning for document analysis and recognition. International Journal on Document Analysis and Recognition, 2018, 21, 159-160.	3.4	9
98	Unsupervised Structure-Texture Separation Network for Oracle Character Recognition. IEEE Transactions on Image Processing, 2022, 31, 3137-3150.	9.8	9
99	Cross-modal prototype learning for zero-shot handwritten character recognition. Pattern Recognition, 2022, 131, 108859.	8.1	9
100	Handwritten text line extraction based on minimum spanning tree clustering. , 2007, , .		8
101	Keyword Spotting in Offline Chinese Handwritten Documents Using a Statistical Model. , 2011, , .		8
102	Handwriting representation and recognition through a sparse projection and low-rank recovery framework. , 2013, , .		8
103	Discriminative Feature Selection via Employing Smooth and Robust Hinge Loss. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 788-802.	11.3	8
104	Improving Handwritten Chinese Text Recognition by Unsupervised Language Model Adaptation. , 2012, , .		6
105	Minimum Risk Training for Handwritten Chinese/Japanese Text Recognition Using Semi-Markov Conditional Random Fields. , 2013, , .		6
106	Joint stroke classification and text line grouping in online handwritten documents with edge pooling attention networks. Pattern Recognition, 2021, 114, 107859.	8.1	6
107	Confused Distance Maximization for Large Category Dimensionality Reduction. , 2012, , .		5
108	Evaluation of Geometric Context Models for Handwritten Numeral String Recognition. , 2014, , .		5

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109	Keyword spotting in handwritten chinese documents using semi-markov conditional random fields. Engineering Applications of Artificial Intelligence, 2017, 58, 49-61.	8.1	5
110	Incremental Adaptive Learning Vector Quantization for Character Recognition with Continuous Style Adaptation. Cognitive Computation, 2018, 10, 334-346.	5.2	5
111	Contextual Stroke Classification in Online Handwritten Documents with Edge Graph Attention Networks. SN Computer Science, 2020, 1, 1.	3.6	5
112	Dynamic Text Line Segmentation for Real-Time Recognition of Chinese Handwritten Sentences. , 2011, , .		4
113	An evaluation of statistical methods in handwritten hangul recognition. International Journal on Document Analysis and Recognition, 2013, 16, 273-283.	3.4	4
114	Keyword Spotting in Online Chinese Handwritten Documents with Candidate Scoring Based on Semi-CRF Model. , 2013, , .		4
115	Style Consistent Perturbation for Handwritten Chinese Character Recognition. , 2013, , .		4
116	Learning confidence transformation for handwritten Chinese text recognition. International Journal on Document Analysis and Recognition, 2014, 17, 205-219.	3.4	4
117	Joint training of conditional random fields and neural networks for stroke classification in online handwritten documents. , 2016, , .		4
118	Incremental Learning Vector Quantization for Character Recognition with Local Style Consistency. Lecture Notes in Computer Science, 2016, , 228-239.	1.3	4
119	Deformable scene text detection using harmonic features and modified pixel aggregation network. Pattern Recognition Letters, 2021, 152, 135-142.	4.2	4
120	Query Pixel Guided Stroke Extraction with Model-Based Matching for Offline Handwritten Chinese Characters. Pattern Recognition, 2022, 123, 108416.	8.1	4
121	Plane Geometry Diagram Parsing. , 2022, , .		4
122	Segmentation-free recognizer based on enhanced four plane feature for realistic Chinese handwriting. , 2008, , .		3
123	GPU-Based Fast Training of Discriminative Learning Quadratic Discriminant Function for Handwritten Chinese Character Recognition. , 2013, , .		3
124	KEYWORD SPOTTING FROM ONLINE CHINESE HANDWRITTEN DOCUMENTS USING ONE-VERSUS-ALL CHARACTER CLASSIFICATION MODEL. International Journal of Pattern Recognition and Artificial Intelligence, 2013, 27, 1353001.	1.2	3
125	Lexicon-driven recognition of one-stroke character strings in visual gesture. , 2015, , .		3
126	F-mixup: Attack CNNs From Fourier Perspective. , 2021, , .		3

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127	Cross-Lingual Text Image Recognition via Multi-Hierarchy Cross-Modal Mimic. IEEE Transactions on Multimedia, 2022, , 1-13.	7.2	3
128	Evaluation of neural network language models in handwritten Chinese text recognition. , 2015, , .		2
129	Editorial for special issue on “Advanced Topics in Document Analysis and Recognition” International Journal on Document Analysis and Recognition, 2019, 22, 189-191.	3.4	2
130	Deep Learning Based Handwritten Chinese Character and Text Recognition. Cognitive Computation Trends, 2019, , 57-88.	1.7	2
131	A benchmark for unconstrained online handwritten Uyghur word recognition. International Journal on Document Analysis and Recognition, 2020, 23, 205-218.	3.4	2
132	Editorial: Special Issue on Recent Advances in Cognitive Learning and Data Analysis. Cognitive Computation, 2021, 13, 785-786.	5.2	2
133	Partial Discriminative Training of Neural Networks for Classification of Overlapping Classes. Lecture Notes in Computer Science, 2008, , 137-146.	1.3	2
134	Improving Handwritten Chinese Character Recognition with Discriminative Quadratic Feature Extraction. , 2014, , .		1
135	Neural network based over-segmentation for scene text recognition. , 2015, , .		1
136	Chinese Handwriting Database Building and Benchmarking. , 2017, , 31-55.		1
137	Discriminative structure learning of sum-product networks for data stream classification. Neural Networks, 2020, 123, 163-175.	5.9	1
138	CASIA-onDo: A New Database for Online Handwritten Document Analysis. Lecture Notes in Computer Science, 2022, , 174-188.	1.3	1
139	Adaptable Global Network for Whole-Brain Segmentation with Symmetry Consistency Loss. Cognitive Computation, 2022, 14, 2246-2259.	5.2	1
140	Feature Transformation with Class Conditional Decorrelation. , 2013, , .		0
141	Special Issue of BICS 2016. Cognitive Computation, 2018, 10, 282-283.	5.2	0
142	Teaching machines to write like humans using L-attributed grammar. Engineering Applications of Artificial Intelligence, 2020, 90, 103489.	8.1	0
143	Editorial: Special Issue on Recent Advances in Cognitive Learning and Data Analysis. Cognitive Computation, 0, , 1.	5.2	0