Masaki Nakagawa

List of Publications by Year
in descending order

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156	2,283	394421	315739
papers	citations	19 h-index	38 g-index

157	157	157	1174
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Evaluation of prototype learning algorithms for nearest-neighbor classifier in application to handwritten character recognition. Pattern Recognition, 2001, 34, 601-615.	8.1	141
3	HDTV1080p H.264/AVC Encoder Chip Design and Performance Analysis. IEEE Journal of Solid-State Circuits, 2009, 44, 594-608.	5.4	74
4	Donepezil for dementia with Lewy bodies: a randomized, placebo-controlled, confirmatory phase III trial. Alzheimer's Research and Therapy, 2015, 7, 4.	6.2	74
5	Collection of on-line handwritten Japanese character pattern databases and their analyses. International Journal on Document Analysis and Recognition, 2004, 7, 69.	3.4	73
6	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
7	Long-Term Safety and Efficacy of Donepezil in Patients with Dementia with Lewy Bodies: Results from a 52-Week, Open-Label, Multicenter Extension Study. Dementia and Geriatric Cognitive Disorders, 2013, 36, 229-241.	1.5	66
8	A robust model for on-line handwritten japanese text recognition. International Journal on Document Analysis and Recognition, 2010, 13, 121-131.	3.4	57
9	Text-independent writer identification using convolutional neural network. Pattern Recognition Letters, 2019, 121, 104-112.	4.2	54
10	Pattern generation strategies for improving recognition of Handwritten Mathematical Expressions. Pattern Recognition Letters, 2019, 128, 255-262.	4.2	52
11	Sectoral analysis of the retinal nerve fiber layer thinning and its association with visual field loss in homonymous hemianopia caused by post-geniculate lesions using spectral-domain optical coherence tomography. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 745-756.	1.9	43
12	Long-term donepezil use for dementia with Lewy bodies: results from an open-label extension of Phase III trial. Alzheimer's Research and Therapy, 2015, 7, 5.	6.2	42
13	Training an End-to-End System for Handwritten Mathematical Expression Recognition by Generated Patterns. , 2017, , .		42
14	Personal digital bodyguards for e-security, e-learning and e-health: A prospective survey. Pattern Recognition, 2018, 81, 633-659.	8.1	37
15	A 1.41W H.264/AVC Real-Time Encoder SOC for HDTV1080P. , 2007, , .		34
16	Combination of global and local contexts for text/non-text classification in heterogeneous online handwritten documents. Pattern Recognition, 2016, 51, 112-124.	8.1	33
17	A database of unconstrained Vietnamese online handwriting and recognition experiments by recurrent neural networks. Pattern Recognition, 2018, 78, 291-306.	8.1	33
18	Influence of Transcranial Direct Current Stimulation to the Cerebellum on Standing Posture Control. Frontiers in Human Neuroscience, 2016, 10, 325.	2.0	32

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19	Challenges and opportunities for improving the landscape for Lewy body dementia clinical trials. Alzheimer's Research and Therapy, 2020, 12, 137.	6.2	32
20	A system for recognizing online handwritten mathematical expressions by using improved structural analysis. International Journal on Document Analysis and Recognition, 2016, 19, 305-319.	3.4	31
21	Recognition System for On-Line Sketched Diagrams. , 2014, , .		30
22	Improvement of End-to-End Offline Handwritten Mathematical Expression Recognition by Weakly Supervised Learning. , 2020, , .		28
23	Objective Function Design for MCE-Based Combination of On-line and Off-line Character Recognizers for On-line Handwritten Japanese Text Recognition. , 2011, , .		24
24	Deep neural networks for recognizing online handwritten mathematical symbols. , 2015, , .		23
25	Attempts to recognize anomalously deformed Kana in Japanese historical documents. , 2017, , .		23
26	CNN based spatial classification features for clustering offline handwritten mathematical expressions. Pattern Recognition Letters, 2020, 131, 113-120.	4.2	23
27	A System for Recognizing Online Handwritten Mathematical Expressions and Improvement of Structure Analysis. , 2014, , .		22
28	Lazy recognition as a principle of pen interfaces. , 1993, , .		20
29	Text/Non-text Classification in Online Handwritten Documents with Recurrent Neural Networks. , 2014, , .		20
30	Recognition of Online Handwritten Math Symbols Using Deep Neural Networks. IEICE Transactions on Information and Systems, 2016, E99.D, 3110-3118.	0.7	19
31	Online Handwritten Japanese Character String Recognition Using Conditional Random Fields. , 2009, , .		18
32	On-line Handwritten Japanese Characters Recognition Using a MRF Model with Parameter Optimization by CRF. , 2011, , .		18
33	Deep Convolutional Recurrent Network for Segmentation-Free Offline Handwritten Japanese Text Recognition. , 2017, , .		18
34	Presence and Absence of Muscle Contraction Elicited by Peripheral Nerve Electrical Stimulation Differentially Modulate Primary Motor Cortex Excitability. Frontiers in Human Neuroscience, 2017, 11, 146.	2.0	18
35	Effects of Donepezil on Extrapyramidal Symptoms in Patients with Dementia with Lewy Bodies: A Secondary Pooled Analysis of Two Randomized-Controlled and Two Open-Label Long-Term Extension Studies. Dementia and Geriatric Cognitive Disorders, 2015, 40, 186-198.	1.5	17
36	An attention-based row-column encoder-decoder model for text recognition in Japanese historical documents. Pattern Recognition Letters, 2020, 136, 134-141.	4.2	17

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37	Time Course of Macular and Peripapillary Inner Retinal Thickness in Non-arteritic Anterior Ischaemic Optic Neuropathy Using Spectral-Domain Optical Coherence Tomography. Neuro-Ophthalmology, 2016, 40, 74-85.	1.0	16
38	A Nom historical document recognition system for digital archiving. International Journal on Document Analysis and Recognition, 2016, 19, 49-64.	3.4	16
39	Accumulated-Recognition-Rate Normalization for Combining Multiple On/Off-Line Japanese Character Classifiers Tested on a Large Database. Lecture Notes in Computer Science, 2003, , 196-205.	1.3	16
40	Regulation of primary motor cortex excitability by repetitive passive finger movement frequency. Neuroscience, 2017, 357, 232-240.	2.3	15
41	Training of an on-line handwritten Japanese character recognizer by artificial patterns. Pattern Recognition Letters, 2014, 35, 178-185.	4.2	14
42	ICFHR 2018 â€“ Competition on Vietnamese Online Handwritten Text Recognition using HANDS-VNOnDB (VOHTR2018). , 2018, , .		14
43	SEPARATING FIGURES, MATHEMATICAL FORMULAS AND JAPANESE TEXT FROM FREE HANDWRITING IN MIXED ONLINE DOCUMENTS. International Journal of Pattern Recognition and Artificial Intelligence, 2004, 18, 1173-1187.	1.2	13
44	Training an End-to-End Model for Offline Handwritten Japanese Text Recognition by Generated Synthetic Patterns. , 2018, , .		13
45	An Attention-Based End-to-End Model for Multiple Text Lines Recognition in Japanese Historical Documents. , 2019, , .		13
46	Separate evolution of H2 and O2 from H2O on visible light-responsive TiO2 thin film photocatalysts prepared by an RF magnetron sputtering method. Research on Chemical Intermediates, 2009, 35, 997-1004.	2.7	12
47	A Database of On-Line Handwritten Mixed Objects Named "Kondate". , 2014, , .		12
48	Pretreatment Cognitive Profile Likely to Benefit from Donepezil Treatment in Dementia with Lewy Bodies: Pooled Analyses of Two Randomized Controlled Trials. Dementia and Geriatric Cognitive Disorders, 2016, 42, 58-68.	1.5	12
49	Increased plasma donepezil concentration improves cognitive function in patients with dementia with Lewy bodies: An exploratory pharmacokinetic/pharmacodynamic analysis in a phase 3 randomized controlled trial. Journal of the Neurological Sciences, 2016, 366, 184-190.	0.6	12
50	Augmented incremental recognition of online handwritten mathematical expressions. International Journal on Document Analysis and Recognition, 2018, 21, 253-268.	3.4	12
51	A MRF model with parameter optimization by CRF for on-line recognition of handwritten Japanese characters. Proceedings of SPIE, 2011, , .	0.8	11
52	Recognizing Unconstrained Vietnamese Handwriting By Attention Based Encoder Decoder Model. , 2018, , .		11
53	Stroke order normalization for improving recognition of online handwritten mathematical expressions. International Journal on Document Analysis and Recognition, 2019, 22, 29-39.	3.4	11
54	An End-to-End Recognition System for Unconstrained Vietnamese Handwriting. SN Computer Science, 2020, 1, 1.	3.6	11

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55	Nom document digitalization by deep convolution neural networks. Pattern Recognition Letters, 2020, 133, 8-16.	4.2	11
56	Development of a Robust and Compact On-Line Handwritten Japanese Text Recognizer for Hand-Held Devices. IEICE Transactions on Information and Systems, 2013, E96.D, 927-938.	0.7	10
57	A Semi-incremental Recognition Method for On-Line Handwritten English Text. , 2014, , .		10
58	FDTD Simulation of Lightning Current in a CFRP Panel: Comparison of the Use of Conductivity Matrix Approach With That of Triangular Prism Cells. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 1674-1677.	2.2	10
59	Effects of Passive Finger Movement on Cortical Excitability. Frontiers in Human Neuroscience, 2017, 11, 216.	2.0	10
60	The integral cohomology ring of E_7/T. Kyoto Journal of Mathematics, 2001, 41, 303.	0.3	9
61	Vector-to-Image Transformation of Character Patterns for On-line and Off-line Recognition. International Journal of Computer Processing of Languages, 2002, 15, 187-209.	0.3	9
62	The integral cohomology ring of E8/T. Proceedings of the Japan Academy Series A: Mathematical Sciences, 2010, 86, .	0.4	9
63	A robust method for coarse classifier construction from a large number of basic recognizers for on-line handwritten Chinese/Japanese character recognition. Pattern Recognition, 2014, 47, 685-693.	8.1	9
64	Syntactic data generation for handwritten mathematical expression recognition. Pattern Recognition Letters, 2022, 153, 83-91.	4.2	9
65	A recognition based on a dynamic model. Pattern Recognition, 1998, 31, 193-203.	8.1	8
66	Improvements in Keyword Search Japanese Characters within Handwritten Digital Ink. , 2009, , .		8
67	Effects of Generating a Large Amount of Artificial Patterns for On-line Handwritten Japanese Character Recognition. , 2011, , .		8
68	Effects of Line Densities on Nonlinear Normalization for Online Handwritten Japanese Character Recognition. , 2011, , .		8
69	Building a compact online MRF recognizer for large character set by structured dictionary representation and vector quantization technique. Pattern Recognition, 2014, 47, 982-993.	8.1	8
70	An incremental recognition method for online handwritten mathematical expressions. , 2015, , .		8
71	FDTD Simulation of Lightning Current in a Multilayer CFRP Panel With Triangular Prism Cells. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 327-330.	2.2	8
72	A Segmentation Method of Single- and Multiple-Touching Characters in Offline Handwritten Japanese Text Recognition. IEICE Transactions on Information and Systems, 2017, E100.D, 2962-2972.	0.7	8

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73	Recognition of Anomalously Deformed Kana Sequences in Japanese Historical Documents. IEICE Transactions on Information and Systems, 2019, E102.D, 1554-1564.	0.7	8
74	Segmentation Based Online Word Recognition: A Conditional Random Field Driven Beam Search Strategy. , 2013, , .		7
75	Online Handwritten Cursive Word Recognition Using Segmentation-Free MRF in Combination with P2DBMN-MQDF. , 2013, , .		7
76	Building compact recognizer with recognition rate maintained for on-line handwritten Japanese text recognition. Pattern Recognition Letters, 2014, 35, 169-177.	4.2	7
77	A Character Attention Generative Adversarial Network for Degraded Historical Document Restoration. , 2019, , .		7
78	Document Image Retrieval to Support Reading Mokkans. , 2008, , .		6
79	Similarity Evaluation and Shape Feature Extraction for Character Pattern Retrieval to Support Reading Historical Documents. , 2012, , .		6
80	An improved segmentation of online English handwritten text using recurrent neural networks. , 2015, , .		6
81	Attention Augmented Convolutional Recurrent Network for Handwritten Japanese Text Recognition. , 2020, , .		6
82	Online Handwritten Mathematical Symbol Segmentation and Recognition with Bidirectional Context. , 2020, , .		6
83	Clustering online handwritten mathematical expressions. Pattern Recognition Letters, 2021, 146, 267-275.	4.2	6
84	Recurrent Neural Network Transducer for Japanese and Chinese Offline Handwritten Text Recognition. Lecture Notes in Computer Science, 2021, , 364-376.	1.3	6
85	Recent Results of Online Japanese Handwriting Recognition and Its Applications. , 2006, , 170-195.		6
86	Prototype learning for structured pattern representation applied to on-line recognition of handwritten Japanese characters. International Journal on Document Analysis and Recognition, 2007, 10, 101-112.	3.4	5
87	Collecting Handwritten Nom Character Patterns from Historical Document Pages. , 2012, , .		5
88	A Semi-incremental Recognition Method for On-Line Handwritten Japanese Text. , 2013, , .		5
89	Generalized Lyapunov exponent as a unified characterization of dynamical instabilities. Physical Review E, 2015, 91, 012926.	2.1	5
90	Adequacy of Using Consensus Guidelines for Diagnosis of Dementia with Lewy Bodies in Clinical Trials for Drug Development. Dementia and Geriatric Cognitive Disorders, 2016, 41, 55-67.	1.5	5

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91	Semi-incremental Recognition of Online Handwritten Mathematical Expressions. , 2016, , .		5
92	Modified X-Y Cut for Re-Ordering Strokes of Online Handwritten Mathematical Expressions. , 2016, , .		5
93	2D Self-attention Convolutional Recurrent Network for Offline Handwritten Text Recognition. Lecture Notes in Computer Science, 2021, , 191-204.	1.3	5
94	Relation-Based Representation for Handwritten Mathematical Expression Recognition. Lecture Notes in Computer Science, 2021, , 7-19.	1.3	5
95	Temporal Classification Constraint for Improving Handwritten Mathematical Expression Recognition. Lecture Notes in Computer Science, 2021, , 113-125.	1.3	5
96	Global Context for Improving Recognition of Online Handwritten Mathematical Expressions. Lecture Notes in Computer Science, 2021, , 617-631.	1.3	5
97	A Semantic Segmentation-based Method for Handwritten Japanese Text Recognition. , 2020, , .		5
98	FD Commons: E-Teaching Portfolio to Enable an Ubiquitous Peer Reviewing Process. , 2009, , .		4
99	A robust model for on-line handwritten Japanese text recognition. , 2009, , .		4
100	A Digital Ink Recogntion Server for Handwritten Japanese Text. , 2011, , .		4
101	A Coarse Classifier Construction Method from a Large Number of Basic Recognizers for On-line Recognition of Handwritten Japanese Characters. , 2011, , .		4
102	Comparison of MRF and CRF for Text/Non-text Classification in Japanese Ink Documents. , 2014, , .		4
103	Online Handwritten Cursive Word Recognition by Combining Segmentation-Free and Segmentation-Based Methods. , 2016, , .		4
104	Finite State Machine Based Decoding of Handwritten Text Using Recurrent Neural Networks. , 2016, , .		4
105	Online Japanese Handwriting Recognizers using Recurrent Neural Networks. , 2018, , .		4
106	Clustering of Handwritten Mathematical Expressions for Computer-Assisted Marking. IEICE Transactions on Information and Systems, 2021, E104.D, 275-284.	0.7	4
107	Effect of Improved Path Evaluation for On-line Handwritten Japanese Text Recognition. , 2009, , .		3
108	Error Reduction by Confusing Characters Discrimination for Online Handwritten Japanese Character Recognition. , 2010, , .		3

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109	An On-line Handwritten Text Search Method Based on Directional Feature Matching. , 2011, , .		3
110	Observed Measures and Fluctuations in Dissipative Infinite Ergodic Systems: Randomization Theory for the Infinite-Modal Maps with Ant-Lion Property. Journal of the Physical Society of Japan, 2014, 83, 104004.	1.6	3
111	Comparison of Parsing Algorithms for Recognizing Online Handwritten Mathematical Expressions. , 2016, , .		3
112	Character-Position-Free On-Line Handwritten Japanese Text Recognition by Two Segmentation Methods. IEICE Transactions on Information and Systems, 2016, E99.D, 1172-1181.	0.7	3
113	Semi-Incremental Recognition of On-Line Handwritten Japanese Text. IEICE Transactions on Information and Systems, 2016, E99.D, 2619-2628.	0.7	3
114	Speedup of Parsing for Recognition of Online Handwritten Mathematical Expressions. , 2017, , .		3
115	Interactive User Interface for Recognizing Online Handwritten Mathematical Expressions and Correcting Misrecognition. , 2019, , .		3
116	Strategy and Tools for Collecting and Annotating Handwritten Descriptive Answers for Developing Automatic and Semi-Automatic Marking - An Initial Effort to Math. , 2019, , .		3
117	Robust and real-time stroke order evaluation using incremental stroke context for learners to write Kanji characters correctly. Pattern Recognition Letters, 2019, 121, 140-149.	4.2	3
118	A-VLAD: An End-to-End Attention-Based Neural Network for Writer Identification in Historical Documents. Lecture Notes in Computer Science, 2021, , 396-409.	1.3	3
119	Human Interface and Applications on IdeaBoard. , 1997, , 501-508.		3
120	A Scoring Tool for Electronic Paper Exams. , 2007, , .		2
121	Trie-Lexicon-Driven Recognition for On-line Handwritten Japanese Disease Names Using a Time-Synchronous Method. , 2011, , .		2
122	Building a Compact On-Line MRF Recognizer for Large Character Set Using Structured Dictionary Representation and Vector Quantization Technique. , 2012, , .		2
123	Effect of Text/Non-text Classification for Ink Search Employing String Recognition. , 2012, , .		2
124	Digital Ink Search Based on Character-Recognition Candidates Compared with Feature-Matching-Based Approach. IEICE Transactions on Information and Systems, 2013, E96.D, 681-689.	0.7	2
125	A unified method for augmented incremental recognition of online handwritten Japanese and English text. International Journal on Document Analysis and Recognition, 2020, 23, 53-72.	3.4	2
126	A Transformer-Based Math Language Model for Handwritten Math Expression Recognition. Lecture Notes in Computer Science, 2021, , 403-415.	1.3	2

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127	Using Stroke-Number-Characteristics for Improving Efficiency of Combined Online and Offline Japanese Character Classifiers. Lecture Notes in Computer Science, 2002, , 115-118.	1.3	2
128	A Self-attention Based Model for Offline Handwritten Text Recognition. Lecture Notes in Computer Science, 2022, , 356-369.	1.3	2
129	A virtual optical disk method to realize rewritability and revision control on a write-once optical disk. Systems and Computers in Japan, 1990, 21, 34-44.	0.2	1
130	An e-mail environment with handwriting using the HandsDraw digital ink format. Systems and Computers in Japan, 2002, 33, 101-109.	0.2	1
131	Ink Search Employing Japanese String Recognition. , 2009, , .		1
132	Exam script analysis from a pen and paper device. , 2010, , .		1
133	A Discriminative Model for On-line Handwritten Japanese Text Retrieval. , 2011, , .		1
134	Transcript Mapping for Handwritten Text Lines Using Conditional Random Fields. , 2011, , .		1
135	Large Improvement in Line-Direction-Free and Character-Orientation-Free On-Line Handwritten Japanese Text Recognition. , 2014, , .		1
136	Online handwritten cursive word recognition using segmentation-free and segmentation-based methods. , 2015, , .		1
137	A Candidate Lattice Refinement Method for Online Handwritten Japanese Text Recognition. , 2016, , .		1
138	Preparation of an Unconstrained Vietnamese Online Handwriting Database and Recognition Experiments by Recurrent Neural Networks. , 2016, , .		1
139	A Line-Direction-Free and Character-Orientation-Free On-Line Handwritten Japanese Text Recognition System. IEICE Transactions on Information and Systems, 2016, E99.D, 197-207.	0.7	1
140	An online overlaid handwritten Japanese text recognition system for small tablet. Pattern Analysis and Applications, 2019, 22, 233-241.	4.6	1
141	Segmentation of On-Line Handwritten Japanese Text Using SVM for Improving Text Recognition. Lecture Notes in Computer Science, 2006, , 208-219.	1.3	1
142	A Series of PIN/Password Input Methods Resilient to Shoulder Hacking Based on Cognitive Difficulty of Tracing Multiple Key Movements. IEICE Transactions on Information and Systems, 2020, E103.D, 1623-1632.	0.7	1
143	A Siamese Network-based Approach For Matching Various Sizes Of Excavated Wooden Fragments. , 2020, , .		1
144	Classifying the Kinematics of Fast Pen Strokes in Children with ADHD using Different Machine Learning Models. Series in Machine Perception and Artificial Intelligence, 2020, , 117-142.	0.1	1

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145	Learning Symbol Relation Tree for Online Handwritten Mathematical Expression Recognition. Lecture Notes in Computer Science, 2022, , 307-321.	1.3	1
146	Signal processing approach to optimum preprocessing for on-line recognition of handwritten japanese characters. Systems and Computers in Japan, 1988, 19, 51-63.	0.2	0
147	Online Handwritten Lao Character Recognition by MRF. IEICE Transactions on Information and Systems, 2012, E95.D, 1603-1609.	0.7	0
148	Comparing Character Recognition Based Approach with Feature Matching Based Approach for Digital Ink Search. , 2012, , .		0
149	Construction of a text digitization system forNomhistorical documents. , 2014, , .		0
150	Character-position-free on-line handwritten Japanese text recognition. , 2015, , .		0
151	A Robust System for Online Handwritten Chinese/Japanese Character Recognition. , 2016, , .		0
152	User Interface for Text and Non-Text Classification. , 2019, , .		0
153	Predicting the Photosynthesis Rate of Rice Leaves under Fluctuating Light Using LSTM. Agricultural Information Research, 2021, 30, 96-108.	0.2	0
154	GSSF: A Generative Sequence Similarity Function Based on a Seq2Seq Model for Clustering Online Handwritten Mathematical Answers. Lecture Notes in Computer Science, 2021, , 145-159.	1.3	0
155	Designing a Peer Reviewing Tool on Lecture Video with Handwritten Annotation. Lecture Notes in Computer Science, 2009, , 31-39.	1.3	0
156	The study of ship name character recognition. The Journal of Japan Institute of Navigation, 2011, 125, 17-23.	0.1	0