

Masaki Nakagawa

List of Publications by Year in descending order

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156
papers

2,283
citations

448610

19
h-index

355658

38
g-index

157
all docs

157
docs citations

157
times ranked

1290
citing authors

#	ARTICLE	IF	CITATIONS
1	Syntactic data generation for handwritten mathematical expression recognition. Pattern Recognition Letters, 2022, 153, 83-91.	2.6	9
2	A Self-attention Based Model for Offline Handwritten Text Recognition. Lecture Notes in Computer Science, 2022, , 356-369.	1.0	2
3	Learning Symbol Relation Tree for Online Handwritten Mathematical Expression Recognition. Lecture Notes in Computer Science, 2022, , 307-321.	1.0	1
4	A-VLAD: An End-to-End Attention-Based Neural Network for Writer Identification in Historical Documents. Lecture Notes in Computer Science, 2021, , 396-409.	1.0	3
5	2D Self-attention Convolutional Recurrent Network for Offline Handwritten Text Recognition. Lecture Notes in Computer Science, 2021, , 191-204.	1.0	5
6	Relation-Based Representation for Handwritten Mathematical Expression Recognition. Lecture Notes in Computer Science, 2021, , 7-19.	1.0	5
7	A Transformer-Based Math Language Model for Handwritten Math Expression Recognition. Lecture Notes in Computer Science, 2021, , 403-415.	1.0	2
8	Temporal Classification Constraint for Improving Handwritten Mathematical Expression Recognition. Lecture Notes in Computer Science, 2021, , 113-125.	1.0	5
9	Clustering of Handwritten Mathematical Expressions for Computer-Assisted Marking. IEICE Transactions on Information and Systems, 2021, E104.D, 275-284.	0.4	4
10	Clustering online handwritten mathematical expressions. Pattern Recognition Letters, 2021, 146, 267-275.	2.6	6
11	Predicting the Photosynthesis Rate of Rice Leaves under Fluctuating Light Using LSTM. Agricultural Information Research, 2021, 30, 96-108.	0.2	0
12	Recurrent Neural Network Transducer for Japanese and Chinese Offline Handwritten Text Recognition. Lecture Notes in Computer Science, 2021, , 364-376.	1.0	6
13	Global Context for Improving Recognition of Online Handwritten Mathematical Expressions. Lecture Notes in Computer Science, 2021, , 617-631.	1.0	5
14	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.	1.0	0
15	An End-to-End Recognition System for Unconstrained Vietnamese Handwriting. SN Computer Science, 2020, 1, 1.	2.3	11
16	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.	2.7	2
17	CNN based spatial classification features for clustering offline handwritten mathematical expressions. Pattern Recognition Letters, 2020, 131, 113-120.	2.6	23
18	Challenges and opportunities for improving the landscape for Lewy body dementia clinical trials. Alzheimer's Research and Therapy, 2020, 12, 137.	3.0	32

#	ARTICLE	IF	CITATIONS
19	Attention Augmented Convolutional Recurrent Network for Handwritten Japanese Text Recognition. , 2020, , .		6
20	Online Handwritten Mathematical Symbol Segmentation and Recognition with Bidirectional Context. , 2020, , .		6
21	Nom document digitalization by deep convolution neural networks. Pattern Recognition Letters, 2020, 133, 8-16.	2.6	11
22	An attention-based row-column encoder-decoder model for text recognition in Japanese historical documents. Pattern Recognition Letters, 2020, 136, 134-141.	2.6	17
23	Improvement of End-to-End Offline Handwritten Mathematical Expression Recognition by Weakly Supervised Learning. , 2020, , .		28
24	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.	0.4	1
25	A Semantic Segmentation-based Method for Handwritten Japanese Text Recognition. , 2020, , .		5
26	A Siamese Network-based Approach For Matching Various Sizes Of Excavated Wooden Fragments. , 2020, , .		1
27	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
28	Text-independent writer identification using convolutional neural network. Pattern Recognition Letters, 2019, 121, 104-112.	2.6	54
29	Pattern generation strategies for improving recognition of Handwritten Mathematical Expressions. Pattern Recognition Letters, 2019, 128, 255-262.	2.6	52
30	Stroke order normalization for improving recognition of online handwritten mathematical expressions. International Journal on Document Analysis and Recognition, 2019, 22, 29-39.	2.7	11
31	Interactive User Interface for Recognizing Online Handwritten Mathematical Expressions and Correcting Misrecognition. , 2019, , .		3
32	Strategy and Tools for Collecting and Annotating Handwritten Descriptive Answers for Developing Automatic and Semi-Automatic Marking - An Initial Effort to Math. , 2019, , .		3
33	A Character Attention Generative Adversarial Network for Degraded Historical Document Restoration. , 2019, , .		7
34	An Attention-Based End-to-End Model for Multiple Text Lines Recognition in Japanese Historical Documents. , 2019, , .		13
35	Recognition of Anomalously Deformed Kana Sequences in Japanese Historical Documents. IEICE Transactions on Information and Systems, 2019, E102.D, 1554-1564.	0.4	8
36	User Interface for Text and Non-Text Classification. , 2019, , .		0

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37	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.	2.6	3
38	An online overlaid handwritten Japanese text recognition system for small tablet. Pattern Analysis and Applications, 2019, 22, 233-241.	3.1	1
39	Personal digital bodyguards for e-security, e-learning and e-health: A prospective survey. Pattern Recognition, 2018, 81, 633-659.	5.1	37
40	A database of unconstrained Vietnamese online handwriting and recognition experiments by recurrent neural networks. Pattern Recognition, 2018, 78, 291-306.	5.1	33
41	ICFHR 2018 "Competition on Vietnamese Online Handwritten Text Recognition using HANDS-VNOnDB (VOHTR2018)". , 2018, , .		14
42	Training an End-to-End Model for Offline Handwritten Japanese Text Recognition by Generated Synthetic Patterns. , 2018, , .		13
43	Recognizing Unconstrained Vietnamese Handwriting By Attention Based Encoder Decoder Model. , 2018, , .		11
44	Online Japanese Handwriting Recognizers using Recurrent Neural Networks. , 2018, , .		4
45	Augmented incremental recognition of online handwritten mathematical expressions. International Journal on Document Analysis and Recognition, 2018, 21, 253-268.	2.7	12
46	Regulation of primary motor cortex excitability by repetitive passive finger movement frequency. Neuroscience, 2017, 357, 232-240.	1.1	15
47	Deep Convolutional Recurrent Network for Segmentation-Free Offline Handwritten Japanese Text Recognition. , 2017, , .		18
48	Attempts to recognize anomalously deformed Kana in Japanese historical documents. , 2017, , .		23
49	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.	0.4	8
50	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.	1.0	18
51	Effects of Passive Finger Movement on Cortical Excitability. Frontiers in Human Neuroscience, 2017, 11, 216.	1.0	10
52	Speedup of Parsing for Recognition of Online Handwritten Mathematical Expressions. , 2017, , .		3
53	Training an End-to-End System for Handwritten Mathematical Expression Recognition by Generated Patterns. , 2017, , .		42
54	Influence of Transcranial Direct Current Stimulation to the Cerebellum on Standing Posture Control. Frontiers in Human Neuroscience, 2016, 10, 325.	1.0	32

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55	Adequacy of Using Consensus Guidelines for Diagnosis of Dementia with Lewy Bodies in Clinical Trials for Drug Development. <i>Dementia and Geriatric Cognitive Disorders</i> , 2016, 41, 55-67.	0.7	5
56	Online Handwritten Cursive Word Recognition by Combining Segmentation-Free and Segmentation-Based Methods. , 2016, , .		4
57	A Candidate Lattice Refinement Method for Online Handwritten Japanese Text Recognition. , 2016, , .		1
58	Time Course of Macular and Peripapillary Inner Retinal Thickness in Non-arteritic Anterior Ischaemic Optic Neuropathy Using Spectral-Domain Optical Coherence Tomography. <i>Neuro-Ophthalmology</i> , 2016, 40, 74-85.	0.4	16
59	Finite State Machine Based Decoding of Handwritten Text Using Recurrent Neural Networks. , 2016, , .		4
60	Semi-incremental Recognition of Online Handwritten Mathematical Expressions. , 2016, , .		5
61	Comparison of Parsing Algorithms for Recognizing Online Handwritten Mathematical Expressions. , 2016, , .		3
62	Preparation of an Unconstrained Vietnamese Online Handwriting Database and Recognition Experiments by Recurrent Neural Networks. , 2016, , .		1
63	A Line-Direction-Free and Character-Orientation-Free On-Line Handwritten Japanese Text Recognition System. <i>IEICE Transactions on Information and Systems</i> , 2016, E99.D, 197-207.	0.4	1
64	Character-Position-Free On-Line Handwritten Japanese Text Recognition by Two Segmentation Methods. <i>IEICE Transactions on Information and Systems</i> , 2016, E99.D, 1172-1181.	0.4	3
65	A system for recognizing online handwritten mathematical expressions by using improved structural analysis. <i>International Journal on Document Analysis and Recognition</i> , 2016, 19, 305-319.	2.7	31
66	Pretreatment Cognitive Profile Likely to Benefit from Donepezil Treatment in Dementia with Lewy Bodies: Pooled Analyses of Two Randomized Controlled Trials. <i>Dementia and Geriatric Cognitive Disorders</i> , 2016, 42, 58-68.	0.7	12
67	Recognition of Online Handwritten Math Symbols Using Deep Neural Networks. <i>IEICE Transactions on Information and Systems</i> , 2016, E99.D, 3110-3118.	0.4	19
68	Semi-Incremental Recognition of On-Line Handwritten Japanese Text. <i>IEICE Transactions on Information and Systems</i> , 2016, E99.D, 2619-2628.	0.4	3
69	A Robust System for Online Handwritten Chinese/Japanese Character Recognition. , 2016, , .		0
70	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. <i>Journal of the Neurological Sciences</i> , 2016, 366, 184-190.	0.3	12
71	FDTD Simulation of Lightning Current in a CFRP Panel: Comparison of the Use of Conductivity Matrix Approach With That of Triangular Prism Cells. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016, 58, 1674-1677.	1.4	10
72	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. <i>Graefes' Archive for Clinical and Experimental Ophthalmology</i> , 2016, 254, 745-756.	1.0	43

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73	Modified X-Y Cut for Re-Ordering Strokes of Online Handwritten Mathematical Expressions. , 2016, , .		5
74	FDTD Simulation of Lightning Current in a Multilayer CFRP Panel With Triangular Prism Cells. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 327-330.	1.4	8
75	A Nom historical document recognition system for digital archiving. International Journal on Document Analysis and Recognition, 2016, 19, 49-64.	2.7	16
76	Combination of global and local contexts for text/non-text classification in heterogeneous online handwritten documents. Pattern Recognition, 2016, 51, 112-124.	5.1	33
77	Deep neural networks for recognizing online handwritten mathematical symbols. , 2015, , .		23
78	Character-position-free on-line handwritten Japanese text recognition. , 2015, , .		0
79	An improved segmentation of online English handwritten text using recurrent neural networks. , 2015, , .		6
80	Online handwritten cursive word recognition using segmentation-free and segmentation-based methods. , 2015, , .		1
81	An incremental recognition method for online handwritten mathematical expressions. , 2015, , .		8
82	Generalized Lyapunov exponent as a unified characterization of dynamical instabilities. Physical Review E, 2015, 91, 012926.	0.8	5
83	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.	3.0	42
84	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.	0.7	17
85	Donepezil for dementia with Lewy bodies: a randomized, placebo-controlled, confirmatory phase III trial. Alzheimer's Research and Therapy, 2015, 7, 4.	3.0	74
86	Large Improvement in Line-Direction-Free and Character-Orientation-Free On-Line Handwritten Japanese Text Recognition. , 2014, , .		1
87	A Semi-incremental Recognition Method for On-Line Handwritten English Text. , 2014, , .		10
88	A Database of On-Line Handwritten Mixed Objects Named "Kondate". , 2014, , .		12
89	Text/Non-text Classification in Online Handwritten Documents with Recurrent Neural Networks. , 2014, , .		20
90	Comparison of MRF and CRF for Text/Non-text Classification in Japanese Ink Documents. , 2014, , .		4

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91	Recognition System for On-Line Sketched Diagrams. , 2014, , .		30
92	Building a compact online MRF recognizer for large character set by structured dictionary representation and vector quantization technique. Pattern Recognition, 2014, 47, 982-993.	5.1	8
93	Training of an on-line handwritten Japanese character recognizer by artificial patterns. Pattern Recognition Letters, 2014, 35, 178-185.	2.6	14
94	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.	5.1	9
95	A System for Recognizing Online Handwritten Mathematical Expressions and Improvement of Structure Analysis. , 2014, , .		22
96	Building compact recognizer with recognition rate maintained for on-line handwritten Japanese text recognition. Pattern Recognition Letters, 2014, 35, 169-177.	2.6	7
97	Construction of a text digitization system forNomhistorical documents. , 2014, , .		0
98	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.	0.7	3
99	Handwritten Chinese/Japanese Text Recognition Using Semi-Markov Conditional Random Fields. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 2413-2426.	9.7	67
100	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.	0.7	66
101	A Semi-incremental Recognition Method for On-Line Handwritten Japanese Text. , 2013, , .		5
102	Segmentation Based Online Word Recognition: A Conditional Random Field Driven Beam Search Strategy. , 2013, , .		7
103	Online Handwritten Cursive Word Recognition Using Segmentation-Free MRF in Combination with P2DBMN-MQDF. , 2013, , .		7
104	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.	0.4	10
105	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.	0.4	2
106	Online Handwritten Lao Character Recognition by MRF. IEICE Transactions on Information and Systems, 2012, E95.D, 1603-1609.	0.4	0
107	Comparing Character Recognition Based Approach with Feature Matching Based Approach for Digital Ink Search. , 2012, , .		0
108	Building a Compact On-Line MRF Recognizer for Large Character Set Using Structured Dictionary Representation and Vector Quantization Technique. , 2012, , .		2

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109	Effect of Text/Non-text Classification for Ink Search Employing String Recognition. , 2012, , .		2
110	Collecting Handwritten Nom Character Patterns from Historical Document Pages. , 2012, , .		5
111	Similarity Evaluation and Shape Feature Extraction for Character Pattern Retrieval to Support Reading Historical Documents. , 2012, , .		6
112	Trie-Lexicon-Driven Recognition for On-line Handwritten Japanese Disease Names Using a Time-Synchronous Method. , 2011, , .		2
113	A Digital Ink Recognition Server for Handwritten Japanese Text. , 2011, , .		4
114	Objective Function Design for MCE-Based Combination of On-line and Off-line Character Recognizers for On-line Handwritten Japanese Text Recognition. , 2011, , .		24
115	A Discriminative Model for On-line Handwritten Japanese Text Retrieval. , 2011, , .		1
116	Effects of Generating a Large Amount of Artificial Patterns for On-line Handwritten Japanese Character Recognition. , 2011, , .		8
117	An On-line Handwritten Text Search Method Based on Directional Feature Matching. , 2011, , .		3
118	A MRF model with parameter optimization by CRF for on-line recognition of handwritten Japanese characters. Proceedings of SPIE, 2011, , .	0.8	11
119	Transcript Mapping for Handwritten Text Lines Using Conditional Random Fields. , 2011, , .		1
120	A Coarse Classifier Construction Method from a Large Number of Basic Recognizers for On-line Recognition of Handwritten Japanese Characters. , 2011, , .		4
121	On-line Handwritten Japanese Characters Recognition Using a MRF Model with Parameter Optimization by CRF. , 2011, , .		18
122	Effects of Line Densities on Nonlinear Normalization for Online Handwritten Japanese Character Recognition. , 2011, , .		8
123	The study of ship name character recognition. The Journal of Japan Institute of Navigation, 2011, 125, 17-23.	0.0	0
124	The integral cohomology ring of E8/T. Proceedings of the Japan Academy Series A: Mathematical Sciences, 2010, 86, .	0.3	9
125	A robust model for on-line handwritten japanese text recognition. International Journal on Document Analysis and Recognition, 2010, 13, 121-131.	2.7	57
126	Exam script analysis from a pen and paper device. , 2010, , .		1

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127	Error Reduction by Confusing Characters Discrimination for Online Handwritten Japanese Character Recognition. , 2010, , .		3
128	Ink Search Employing Japanese String Recognition. , 2009, , .		1
129	Improvements in Keyword Search Japanese Characters within Handwritten Digital Ink. , 2009, , .		8
130	Effect of Improved Path Evaluation for On-line Handwritten Japanese Text Recognition. , 2009, , .		3
131	Online Handwritten Japanese Character String Recognition Using Conditional Random Fields. , 2009, , .		18
132	Separate evolution of H ₂ and O ₂ from H ₂ O on visible light-responsive TiO ₂ thin film photocatalysts prepared by an RF magnetron sputtering method. Research on Chemical Intermediates, 2009, 35, 997-1004.	1.3	12
133	FD Commons: E-Teaching Portfolio to Enable an Ubiquitous Peer Reviewing Process. , 2009, , .		4
134	HDTV1080p H.264/AVC Encoder Chip Design and Performance Analysis. IEEE Journal of Solid-State Circuits, 2009, 44, 594-608.	3.5	74
135	A robust model for on-line handwritten Japanese text recognition. , 2009, , .		4
136	Designing a Peer Reviewing Tool on Lecture Video with Handwritten Annotation. Lecture Notes in Computer Science, 2009, , 31-39.	1.0	0
137	Document Image Retrieval to Support Reading Mokkans. , 2008, , .		6
138	A Scoring Tool for Electronic Paper Exams. , 2007, , .		2
139	A 1.41W H.264/AVC Real-Time Encoder SOC for HDTV1080P. , 2007, , .		34
140	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.	2.7	5
141	Recent Results of Online Japanese Handwriting Recognition and Its Applications. , 2006, , 170-195.		6
142	Segmentation of On-Line Handwritten Japanese Text Using SVM for Improving Text Recognition. Lecture Notes in Computer Science, 2006, , 208-219.	1.0	1
143	Collection of on-line handwritten Japanese character pattern databases and their analyses. International Journal on Document Analysis and Recognition, 2004, 7, 69.	2.7	73
144	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.	0.7	13

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145	Online recognition of chinese characters: the state-of-the-art. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 198-213.	9.7	270
146	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.	1.0	16
147	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
148	An e-mail environment with handwriting using the HandsDraw digital ink format. Systems and Computers in Japan, 2002, 33, 101-109.	0.2	1
149	Using Stroke-Number-Characteristics for Improving Efficiency of Combined Online and Offline Japanese Character Classifiers. Lecture Notes in Computer Science, 2002, , 115-118.	1.0	2
150	The integral cohomology ring of E_7/T_7 . Kyoto Journal of Mathematics, 2001, 41, 303.	0.2	9
151	Evaluation of prototype learning algorithms for nearest-neighbor classifier in application to handwritten character recognition. Pattern Recognition, 2001, 34, 601-615.	5.1	141
152	A recognition based on a dynamic model. Pattern Recognition, 1998, 31, 193-203.	5.1	8
153	Human Interface and Applications on IdeaBoard. , 1997, , 501-508.		3
154	Lazy recognition as a principle of pen interfaces. , 1993, , .		20
155	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
156	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