

Seiichi Uchida

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

171
papers

2,626
citations

18
h-index

48
g-index

190
ext. papers

3,606
ext. citations

3.4
avg, IF

5.77
L-index

#	Paper	IF	Citations
171	ICDAR 2013 Robust Reading Competition 2013 ,		565
170	ICDAR 2015 competition on Robust Reading 2015 ,		529
169	A Comparative Evaluation of Unsupervised Anomaly Detection Algorithms for Multivariate Data. <i>PLoS ONE</i> , 2016 , 11, e0152173	3.7	334
168	A parallel image encryption method based on compressive sensing. <i>Multimedia Tools and Applications</i> , 2014 , 72, 71-93	2.5	76
167	INFTY 2003 ,		66
166	Image processing and recognition for biological images. <i>Development Growth and Differentiation</i> , 2013 , 55, 523-49	3	55
165	An empirical survey of data augmentation for time series classification with neural networks. <i>PLoS ONE</i> , 2021 , 16, e0254841	3.7	44
164	Quantitative analysis of APP axonal transport in neurons: role of JIP1 in enhanced APP anterograde transport. <i>Molecular Biology of the Cell</i> , 2014 , 25, 3569-80	3.5	42
163	A RhoA and Rnd3 cycle regulates actin reassembly during membrane blebbing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1863-71	11.5	37
162	Mathematical symbol recognition with support vector machines. <i>Pattern Recognition Letters</i> , 2008 , 29, 1326-1332	4.7	37
161	Activity Recognition for the Mind: Toward a Cognitive "Quantified Self". <i>Computer</i> , 2013 , 46, 105-108	1.6	32
160	Could scene context be beneficial for scene text detection?. <i>Pattern Recognition</i> , 2016 , 58, 204-215	7.7	25
159	Endoplasmic-reticulum-mediated microtubule alignment governs cytoplasmic streaming. <i>Nature Cell Biology</i> , 2017 , 19, 399-406	23.4	24
158	Simple and direct assembly of kymographs from movies using KYMOMAKER. <i>Traffic</i> , 2014 , 15, 1-11	5.7	23
157	Mining the displacement of max-pooling for text recognition. <i>Pattern Recognition</i> , 2019 , 93, 558-569	7.7	21
156	Text Localization and Recognition in Images and Video 2014 , 843-883		19
155	Eigen-deformations for elastic matching based handwritten character recognition. <i>Pattern Recognition</i> , 2003 , 36, 2031-2040	7.7	19

154	Complex image processing with less data Document image binarization by integrating multiple pre-trained U-Net modules. <i>Pattern Recognition</i> , 2021 , 109, 107577	7.7	19
153	Basal filopodia and vascular mechanical stress organize fibronectin into pillars bridging the mesoderm-endoderm gap. <i>Development (Cambridge)</i> , 2017 , 144, 281-291	6.6	18
152	Automatic Signature Stability Analysis and Verification Using Local Features 2014 ,		18
151	A Keypoint-Based Approach toward Scenery Character Detection 2011 ,		18
150	Neural Font Style Transfer 2017 ,		17
149	GlyphGAN: Style-consistent font generation based on generative adversarial networks. <i>Knowledge-Based Systems</i> , 2019 , 186, 104927	7.3	16
148	Time series classification using local distance-based features in multi-modal fusion networks. <i>Pattern Recognition</i> , 2020 , 97, 107024	7.7	16
147	How Salient is Scene Text? 2012 ,		15
146	Interphase adhesion geometry is transmitted to an internal regulator for spindle orientation via caveolin-1. <i>Nature Communications</i> , 2016 , 7, ncomms11858	17.4	14
145	Deep BLSTM neural networks for unconstrained continuous handwritten text recognition 2015 ,		14
144	Part-Based Recognition of Handwritten Characters 2010 ,		14
143	DTW-NN: A novel neural network for time series recognition using dynamic alignment between inputs and weights. <i>Knowledge-Based Systems</i> , 2020 , 188, 104971	7.3	14
142	Efficient temporal pattern recognition by means of dissimilarity space embedding with discriminative prototypes. <i>Pattern Recognition</i> , 2017 , 64, 268-276	7.7	13
141	Coordinated changes in cell membrane and cytoplasm during maturation of apoptotic bleb. <i>Molecular Biology of the Cell</i> , 2020 , 31, 833-844	3.5	13
140	Global feature for online character recognition. <i>Pattern Recognition Letters</i> , 2014 , 35, 142-148	4.7	13
139	. <i>IEEE Access</i> , 2019 , 7, 144030-144042	3.5	12
138	Comparative Study of Part-Based Handwritten Character Recognition Methods 2011 ,		12
137	Three-dimensional computer graphic animations for studying social approach behaviour in medaka fish: Effects of systematic manipulation of morphological and motion cues. <i>PLoS ONE</i> , 2017 , 12, e0175059 ^{3,7}		11

136	Deep Dynamic Time Warping: End-to-End Local Representation Learning for Online Signature Verification 2019 ,		11
135	Exploring the world of fonts for discovering the most standard fonts and the missing fonts 2015 ,		10
134	Visual Saliency Models for Text Detection in Real World. <i>PLoS ONE</i> , 2014 , 9, e114539	3.7	10
133	Scene Character Detection by an Edge-Ray Filter 2013 ,		10
132	Early recognition of sequential patterns by classifier combination 2008 ,		10
131	A Further Step to Perfect Accuracy by Training CNN with Larger Data 2016 ,		10
130	Biosignal Generation and Latent Variable Analysis With Recurrent Generative Adversarial Networks. <i>IEEE Access</i> , 2019 , 7, 144292-144302	3.5	9
129	Expansion of queries and databases for improving the retrieval accuracy of document portions 2010 ,		9
128	Verification of Mathematical Formulae Based on a Combination of Context-Free Grammar and Tree Grammar. <i>Lecture Notes in Computer Science</i> , 2008 , 415-429	0.9	9
127	Analyzing the Distribution of a Large-Scale Character Pattern Set Using Relative Neighborhood Graph 2013 ,		8
126	Statistical Classification of Spatial Relationships among Mathematical Symbols 2009 ,		8
125	Optical Odor Imaging by Fluorescence Probes. <i>Journal of Robotics and Mechatronics</i> , 2012 , 24, 47-54	0.7	8
124	Page Segmentation using a Convolutional Neural Network with Trainable Co-Occurrence Features 2019 ,		8
123	Automatic Generation of Typographic Font From Small Font Subset. <i>IEEE Computer Graphics and Applications</i> , 2020 , 40, 99-111	1.7	8
122	Time Series Data Augmentation for Neural Networks by Time Warping with a Discriminative Teacher 2021 ,		8
121	How do Convolutional Neural Networks Learn Design? 2018 ,		8
120	Prewarping Siamese Network: Learning Local Representations for Online Signature Verification 2019 ,		7
119	Preselection of support vector candidates by relative neighborhood graph for large-scale character recognition 2015 ,		7

118	Part-based methods for handwritten digit recognition. <i>Frontiers of Computer Science</i> , 2013 , 7, 514-525	2.2	7
117	The Reading-Life Log -- Technologies to Recognize Texts That We Read 2013 ,		7
116	Reliable Online Stroke Recovery from Offline Data with the Data-Embedding Pen 2011 ,		7
115	Cascading Modular U-Nets for Document Image Binarization 2019 ,		7
114	Font Creation Using Class Discriminative Deep Convolutional Generative Adversarial Networks 2017 ,		6
113	LSTM-Based Early Recognition of Motion Patterns 2014 ,		6
112	Identifying Subscripts and Superscripts in Mathematical Documents. <i>Mathematics in Computer Science</i> , 2008 , 2, 195-209	0.5	6
111	Piecewise linear two-dimensional warping. <i>Systems and Computers in Japan</i> , 2001 , 32, 1-9		6
110	STIM-Orai1 signaling regulates fluidity of cytoplasm during membrane blebbing. <i>Nature Communications</i> , 2021 , 12, 480	17.4	6
109	Structural Analysis of Mathematical Formulae with Verification Based on Formula Description Grammar. <i>Lecture Notes in Computer Science</i> , 2006 , 153-163	0.9	6
108	A new method for multi-oriented graphics-scene-3D text classification in video. <i>Pattern Recognition</i> , 2016 , 49, 19-42	7.7	5
107	Human Reading Knowledge Inspired Text Line Extraction. <i>Cognitive Computation</i> , 2018 , 10, 84-93	4.4	5
106	Contained Neural Style Transfer for Decorated Logo Generation 2018 ,		5
105	Improved BLSTM Neural Networks for Recognition of On-Line Bangla Complex Words. <i>Lecture Notes in Computer Science</i> , 2014 , 404-413	0.9	5
104	Scene Text Relocation with Guidance 2017 ,		5
103	Selective Concealment of Characters for Privacy Protection 2014 ,		5
102	Data-embedding pen 2010 ,		5
101	Skew Estimation by Instances 2008 ,		5

100	Mosaicing-by-recognition for video-based text recognition. <i>Pattern Recognition</i> , 2008 , 41, 1230-1240	7.7	5
99	Few-Shot Text Style Transfer via Deep Feature Similarity. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 6932-6946	8.7	5
98	Modality Conversion of Handwritten Patterns by Cross Variational Autoencoders 2019 ,		5
97	Guided neural style transfer for shape stylization. <i>PLoS ONE</i> , 2020 , 15, e0233489	3.7	4
96	The cytoplasmic region of the amyloid β protein precursor (APP) is necessary and sufficient for the enhanced fast velocity of APP transport by kinesin-1. <i>FEBS Letters</i> , 2018 , 592, 2716-2724	3.8	4
95	On the possibility of instance-based stroke recovery 2012 ,		4
94	Character Image Patterns as Big Data 2012 ,		4
93	Scene Character Detection and Recognition with Cooperative Multiple-Hypothesis Framework. <i>IEICE Transactions on Information and Systems</i> , 2013 , E96.D, 2235-2244	0.6	4
92	Embedding Meta-Information in Handwriting -- Reed-Solomon for Reliable Error Correction 2010 ,		4
91	Scenery Character Detection with Environmental Context 2011 ,		4
90	Fast 3D reconstruction of human shape and motion tracking by parallel fast level set method 2008 ,		4
89	Affine Invariant Recognition of Characters by Progressive Pruning 2008 ,		4
88	Analytical Dynamic Programming Tracker. <i>Lecture Notes in Computer Science</i> , 2011 , 296-309	0.9	4
87	Explainable Deep Learning Reproduces a Professional EyeSon the Diagnosis of Internal Disorders in Persimmon Fruit. <i>Plant and Cell Physiology</i> , 2020 , 61, 1967-1973	4.9	4
86	A Robust Dissimilarity-Based Neural Network for Temporal Pattern Recognition 2016 ,		4
85	Serif or Sans: Visual Font Analytics on Book Covers and Online Advertisements 2019 ,		4
84	Top-rank convolutional neural network and its application to medical image-based diagnosis. <i>Pattern Recognition</i> , 2021 , 120, 108138	7.7	4
83	On the Possibility of Structure Learning-Based Scene Character Detector 2013 ,		3

82	A Part-Based Skew Estimation Method 2012 ,		3
81	Syntactic Detection and Correction of Misrecognitions in Mathematical OCR 2009 ,		3
80	Capturing Digital Ink as Retrieving Fragments of Document Images 2009 ,		3
79	Layout-free dewarping of planar document images 2009 ,		3
78	Detection and Tracking Protein Molecules in Fluorescence Microscopic Video 2013 ,		2
77	Stable Marriage Algorithm for Tracking Intracellular Objects 2013 ,		2
76	More than ink [Realization of a data-embedding pen. <i>Pattern Recognition Letters</i> , 2014 , 35, 246-255	4-7	2
75	Affine-invariant character recognition by progressive removing. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2012 , 180, 55-63	0-4	2
74	How Important is Global Structure for Characters? 2012 ,		2
73	Look Inside the World of Parts of Handwritten Characters 2011 ,		2
72	Analysis of Local Features for Handwritten Character Recognition 2010 ,		2
71	Tracking and Retrieval of Pen Tip Positions for an Intelligent Camera Pen 2010 ,		2
70	Conspicuous Character Patterns 2009 ,		2
69	Effect of Text Color on Word Embeddings. <i>Lecture Notes in Computer Science</i> , 2020 , 341-355	0-9	2
68	Regularized Pooling. <i>Lecture Notes in Computer Science</i> , 2020 , 241-254	0-9	2
67	A Hierarchical Visual Saliency Model for Character Detection in Natural Scenes. <i>Lecture Notes in Computer Science</i> , 2014 , 18-29	0-9	2
66	Improving Hausdorff Edit Distance Using Structural Node Context. <i>Lecture Notes in Computer Science</i> , 2015 , 148-157	0-9	2
65	Globally Optimal Text Line Extraction Based on K-Shortest Paths Algorithm 2016 ,		2

64	RankSVM for Offline Signature Verification 2019 ,		2
63	Selective Super-Resolution for Scene Text Images 2019 ,		2
62	Noninvasive Diagnosis of Seedless Fruit Using Deep Learning in Persimmon. <i>Horticulture Journal</i> , 2021 , 90, 172-180	1.1	2
61	Which Parts Determine the Impression of the Font?. <i>Lecture Notes in Computer Science</i> , 2021 , 723-738	0.9	2
60	Impressions2Font: Generating Fonts by Specifying Impressions. <i>Lecture Notes in Computer Science</i> , 2021 , 739-754	0.9	2
59	True color distributions of scene text and background 2015 ,		1
58	Benchmarking Deep Learning Models for Classification of Book Covers. <i>SN Computer Science</i> , 2020 , 1, 1	2	1
57	Comparative performance analysis of stroke correspondence search methods for stroke-order free online multi-stroke character recognition. <i>Frontiers of Computer Science</i> , 2014 , 8, 773-784	2.2	1
56	Recovery and localization of handwritings by a camera-pen based on tracking and document image retrieval. <i>Pattern Recognition Letters</i> , 2014 , 35, 214-224	4.7	1
55	Part-Based Recognition of Arbitrary Fonts 2013 ,		1
54	Tackling temporal pattern recognition by vector space embedding 2015 ,		1
53	Dynamic Programming Matching with Global Features for Online Character Recognition 2012 ,		1
52	Odor spatial distribution visualized by a fluorescent imaging sensor 2013 ,		1
51	Skew Estimation by Parts. <i>IEICE Transactions on Information and Systems</i> , 2013 , E96.D, 1503-1512	0.6	1
50	Automatic Classification of Spatial Relationships among Mathematical Symbols Using Geometric Features. <i>IEICE Transactions on Information and Systems</i> , 2009 , E92-D, 2235-2243	0.6	1
49	Grammatical Verification for Mathematical Formula Recognition Based on Context-Free Tree Grammar. <i>Mathematics in Computer Science</i> , 2010 , 3, 279-298	0.5	1
48	A Large-Scale Analysis of Mathematical Expressions for an Accurate Understanding of Their Structure 2008 ,		1
47	2020 ,		1

46	Efficient Soft-Constrained Clustering for Group-Based Labeling. <i>Lecture Notes in Computer Science</i> , 2019 , 421-430	0.9	1
45	A Trainable Multiplication Layer for Auto-correlation and Co-occurrence Extraction. <i>Lecture Notes in Computer Science</i> , 2019 , 414-430	0.9	1
44	Affine Invariant Character Recognition by Progressive Removing. <i>IEEJ Transactions on Industry Applications</i> , 2011 , 131, 873-879	0.2	1
43	Logo Design Analysis by Ranking 2019 ,		1
42	Capturing Micro Deformations from Pooling Layers for Offline Signature Verification 2019 ,		1
41	Odor Recognition of Thermal Decomposition Products of Electric Cables Using Odor Sensing Arrays. <i>Chemosensors</i> , 2021 , 9, 261	4	1
40	Learning the micro deformations by max-pooling for offline signature verification. <i>Pattern Recognition</i> , 2021 , 118, 108008	7.7	1
39	. <i>IEEE Access</i> , 2021 , 9, 103279-103290	3.5	1
38	Automatic Estimation of Ulcerative Colitis Severity by Learning to Rank With Calibration. <i>IEEE Access</i> , 2022 , 10, 25688-25695	3.5	1
37	Efficient Anchor Graph Hashing with Data-Dependent Anchor Selection. <i>IEICE Transactions on Information and Systems</i> , 2015 , E98.D, 2030-2033	0.6	0
36	Neural Style Difference Transfer and Its Application to Font Generation. <i>Lecture Notes in Computer Science</i> , 2020 , 544-558	0.9	0
35	Character-Independent Font Identification. <i>Lecture Notes in Computer Science</i> , 2020 , 497-511	0.9	0
34	Discovery of anti-inflammatory physiological peptides that promote tissue repair by reinforcing epithelial barrier formation. <i>Science Advances</i> , 2021 , 7, eabj6895	14.3	0
33	Early Recognition and Prediction of Gestures for Embodied Proactive Human Interface. <i>Journal of the Robotics Society of Japan</i> , 2006 , 24, 954-963	0.1	0
32	Reading-Life Log as a New Paradigm of Utilizing Character and Document Media 2017 , 197-233		0
31	Analytical Dynamic Programming Matching. <i>Lecture Notes in Computer Science</i> , 2012 , 92-101	0.9	0
30	A voting-based sequential pattern recognition method. <i>PLoS ONE</i> , 2013 , 8, e76980	3.7	0
29	Attention to Warp: Deep Metric Learning for Multivariate Time Series. <i>Lecture Notes in Computer Science</i> , 2021 , 350-365	0.9	0

- 28 Data Embedding into Characters. *IEICE Transactions on Information and Systems*, **2015**, E98.D, 10-20 0.6
- 27 Category-dependent elastic matching based on a linear combination of eigen-deformations. *Systems and Computers in Japan*, **2005**, 36, 13-22
- 26 ACMU-Nets: Attention Cascading Modular U-Nets Incorporating Squeeze and Excitation Blocks. *Lecture Notes in Computer Science*, **2020**, 118-130 0.9
- 25 Top-Rank Learning Robust to Outliers. *Lecture Notes in Computer Science*, **2021**, 608-619 0.9
- 24 Elastic Matching Techniques for Handwritten Character Recognition **2008**, 17-38
- 23 On Fast Sample Preselection for Speeding up Convolutional Neural Network Training. *Lecture Notes in Computer Science*, **2018**, 65-75 0.9
- 22 Optimal Rejection Function Meets Character Recognition Tasks. *Lecture Notes in Computer Science*, **2020**, 169-183 0.9
- 21 Visualizing the Distribution of a Large-Scale Pattern Set using Compressed Relative Neighborhood Graph. *IEEJ Transactions on Electronics, Information and Systems*, **2017**, 137, 1495-1505 0.1
- 20 Basal filopodia and vascular mechanical stress organize fibronectin into pillars bridging the mesoderm-endoderm gap. *Journal of Cell Science*, **2017**, 130, e1.2-e1.2 5.3
- 19 Visual Tracking of an Object with its Motion Information. *IEEJ Transactions on Electronics, Information and Systems*, **2009**, 129, 977-984 0.1
- 18 How to Design Kansei Retrieval Systems?. *Lecture Notes in Computer Science*, **2010**, 405-416 0.9
- 17 A New Approach for Instance-Based Skew Estimation. *Lecture Notes in Computer Science*, **2011**, 195-203 0.9
- 16 Object Tracking with RFID. *IEEJ Transactions on Industry Applications*, **2011**, 131, 441-447 0.2
- 15 Toward Forensics by Stroke Order Variation [Performance Evaluation of Stroke Correspondence Methods. *Lecture Notes in Computer Science*, **2011**, 43-55 0.9
- 14 Handwriting on Paper as a Cybermedium. *Lecture Notes in Computer Science*, **2011**, 204-211 0.9
- 13 Data-Embedding Pen. *Advances in Multimedia and Interactive Technologies Book Series*, **2013**, 396-411 0.2
- 12 Statistical Deformation Model for Handwritten Character Recognition. *Statistical Science and Interdisciplinary Research*, **2014**, 157-174
- 11 Font Distribution Observation by Network-Based Analysis. *Lecture Notes in Computer Science*, **2014**, 83-97.9

- 10 Towards Book Cover Design via Layout Graphs. *Lecture Notes in Computer Science*, **2021**, 642-657 0.9
- 9 Using Robust Regression to Find Font Usage Trends. *Lecture Notes in Computer Science*, **2021**, 126-141 0.9
- 8 Meta-learning of Pooling Layers for Character Recognition. *Lecture Notes in Computer Science*, **2021**, 188-203 0.9
- 7 Famous Companies Use More Letters in Logo: A Large-Scale Analysis of Text Area in Logo. *Lecture Notes in Computer Science*, **2021**, 97-111 0.9
- 6 Soft and self constrained clustering for group-based labeling. *Medical Image Analysis*, **2021**, 72, 102097 15.4
- 5 Font Style that Fits an Image [Font Generation Based on Image Context. *Lecture Notes in Computer Science*, **2021**, 569-584 0.9
- 4 Shared Latent Space of Font Shapes and Their Noisy Impressions. *Lecture Notes in Computer Science*, **2022**, 146-157 0.9
- 3 Font Shape-to-Impression Translation. *Lecture Notes in Computer Science*, **2022**, 3-17 0.9
- 2 Revealing Reliable Signatures by Learning Top-Rank Pairs. *Lecture Notes in Computer Science*, **2022**, 323-337 0.9
- 1 TrueType Transformer: Character and Font Style Recognition in Outline Format. *Lecture Notes in Computer Science*, **2022**, 18-32 0.9