Lambert Rb Schomaker

List of Publications by Year in Descending Order

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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.

123 papers	3,038 citations	30 h-index	51 g-index
142 ext. papers	3,544 ext. citations	3.8 avg, IF	5.69 L-index

#	Paper	IF	Citations
123	Active Learning for Reducing Labeling Effort in Text Classification Tasks. *Communications in Computer and Information Science*, **2022**, 3-29	0.3	
122	A Fully Automated End-to-End Process for Fluorescence Microscopy Images of Yeast Cells: From Segmentation to Detection and Classification. *Lecture Notes in Electrical Engineering*, **2022**, 37-46	0.2	
121	Two-stage visual navigation by deep neural networks and multi-goal reinforcement learning. *Robotics and Autonomous Systems*, **2021**, 138, 103731	3.5	1
120	Artificial intelligence based writer identification generates new evidence for the unknown scribes of the Dead Sea Scrolls exemplified by the Great Isaiah Scroll (1QIsaa). *PLoS ONE*, **2021**, 16, e0249769	3.7	7
119	A limited-size ensemble of homogeneous CNN/LSTMs for high-performance word classification. *Neural Computing and Applications*, **2021**, 33, 8615	4.8	1
118	GR-RNN: Global-context residual recurrent neural networks for writer identification. *Pattern Recognition*, **2021**, 117, 107975	7.7	7
117	CT-Net: Cascade T-shape deep fusion networks for document binarization. *Pattern Recognition*, **2021**, 118, 108010	7.7	1
116	CentroidNetV2: A hybrid deep neural network for small-object segmentation and counting. *Neurocomputing*, **2021**, 423, 490-505	5.4	3
115	One-vs-One classification for deep neural networks. *Pattern Recognition*, **2020**, 108, 107528	7.7	19
114	Feature-extraction methods for historical manuscript dating based on writing style development. *Pattern Recognition Letters*, **2020**, 131, 413-420	4.7	13
113	FragNet: Writer Identification Using Deep Fragment Networks. *IEEE Transactions on Information Forensics and Security*, **2020**, 15, 3013-3022	8	27
112	Deep Learning with Data Augmentation for Fruit Counting. *Lecture Notes in Computer Science*, **2020** , 203-214	0.9	
111	Learning to Grasp 3D Objects using Deep Residual U-Nets **2020**,		2
110	Accelerating Reinforcement Learning for Reaching Using Continuous Curriculum Learning **2020**,		6
109	DeepOtsu: Document enhancement and binarization using iterative deep learning. *Pattern Recognition*, **2019**, 91, 379-390	7.7	60
108	Multi-script text versus non-text classification of regions in scene images. *Journal of Visual Communication and Image Representation*, **2019**, 62, 23-42	2.7	11
107	Hyperspectral demosaicking and crosstalk correction using deep learning. *Machine Vision and Applications*, **2019**, 30, 1-21	2.8	17

106	No Padding Please: Efficient Neural Handwriting Recognition **2019**,		3
105	Deep adaptive learning for writer identification based on single handwritten word images. *Pattern Recognition*, **2019**, 88, 64-74	7.7	37
104	Deep Learning for Classification and as Tapped-Feature Generator in Medieval Word-Image Recognition **2018**,		2
103	An analysis of rotation matrix and colour constancy data augmentation in classifying images of animals. *Journal of Information and Telecommunication*, **2018**, 2, 465-491	1.4	9
102	A Deep Convolutional Neural Network for Location Recognition and Geometry based Information **2018**,		2
101	Detection and Recognition of Badgers Using Deep Learning. *Lecture Notes in Computer Science*, **2018**, 554-563	0.9	1
100	Towards a Digital Infrastructure for Illustrated Handwritten Archives. *Lecture Notes in Computer Science*, **2018**, 155-166	0.9	7
99	Zero-Shot Learning Based Approach For Medieval Word Recognition using Deep-Learned Features **2018**,		3
98	Operational data augmentation in classifying single aerial images of animals **2017**,		12
97	Data Augmentation for Plant Classification. *Lecture Notes in Computer Science*, **2017**, 615-626	0.9	30
96	Beyond OCR: Multi-faceted understanding of handwritten document characteristics. *Pattern Recognition*, **2017**, 63, 321-333	7.7	24
95	Writer identification using curvature-free features. *Pattern Recognition*, **2017**, 63, 451-464	7.7	55
94	Comparing Local Descriptors and Bags of Visual Words to Deep Convolutional Neural Networks for Plant Recognition **2017**,		49
93	A Digital Palaeographic Approach towards Writer Identification in the Dead Sea Scrolls **2017**,		6
92	A Multiple-Label Guided Clustering Algorithm for Historical Document Dating and Localization. *IEEE Transactions on Image Processing*, **2016**, 25, 5252-65	8.7	12
91	General Pattern Run-Length Transform for Writer Identification **2016**,		7
90	Design considerations for a large-scale image-based text search engine in historical manuscript collections. *IT - Information Technology*, **2016**, 58, 80-88	0.4	7
89	Evaluating automatically parallelized versions of the support vector machine. *Concurrency Computation Practice and Experience*, **2016**, 28, 2274-2294	1.4	6

88	Musicologist-driven writer identification in early music manuscripts. *Multimedia Tools and Applications*, **2016**, 75, 6463-6479	2.5	
87	Historical Document Dating Using Unsupervised Attribute Learning **2016**,		4
86	Comparative study between deep learning and bag of visual words for wild-animal recognition **2016**,		11
85	Dynamic parameter update for robot navigation systems through unsupervised environmental situational analysis **2016**,		1
84	Discovering Visual Element Evolutions for Historical Document Dating **2016**,		6
83	Co-occurrence Features for Writer Identification **2016**,		6
82	Image-based historical manuscript dating using contour and stroke fragments. *Pattern Recognition*, **2016**, 58, 159-171	7.7	26
81	Bangla Handwritten Character Segmentation Using Structural Features. *ACM Transactions on Asian and Low-Resource Language Information Processing*, **2016**, 15, 1-26	1.1	4
80	Historical manuscript dating based on temporal pattern codebook. *Computer Vision and Image Understanding*, **2016**, 152, 167-175	4.3	16
79	Junction detection in handwritten documents and its application to writer identification. *Pattern Recognition*, **2015**, 48, 4036-4048	7.7	65
78	Recognition of handwritten characters using local gradient feature descriptors. *Engineering Applications of Artificial Intelligence*, **2015**, 45, 405-414	7.2	47
77	A Polar Stroke Descriptor for classification of historical documents **2015**,		12
76	Ensemble Methods for Robust 3D Face Recognition Using Commodity Depth Sensors **2015**,		2
75	Robust Face Recognition by Computing Distances From Multiple Histograms of Oriented Gradients **2015**,		7
74	Indoor localization by denoising autoencoders and semi-supervised learning in 3D simulated environment **2015**,		2
73	Object Attention Patches for Text Detection and Recognition in Scene Images using SIFT **2015**,		2
72	Machine learning for multi-view eye-pair detection. *Engineering Applications of Artificial Intelligence*, **2014**, 33, 69-79	7.2	4
71	Separability versus prototypicality in handwritten word-image retrieval. *Pattern Recognition*, **2014**, 47, 1031-1038	7.7	15

70	A Reevaluation and Benchmark of Hidden Markov Models **2014**,		2
69	Towards Style-Based Dating of Historical Documents **2014**,		26
68	A Path Planning for Line Segmentation of Handwritten Documents **2014**,		11
67	Delta-n Hinge: Rotation-Invariant Features for Writer Identification **2014**,		28
66	A Comparison of Feature and Pixel-Based Methods for Recognizing Handwritten Bangla Digits **2013**,		17
65	Generative Artificial Intelligence. *Studies in Applied Philosophy, Epistemology and Rational Ethics*, **2013**, 107-120	0.3	3
64	Writer Identification in Old Music Manuscripts Using Contour-Hinge Feature and Dimensionality Reduction with an Autoencoder. *Lecture Notes in Computer Science*, **2013**, 555-562	0.9	
63	Writer identification using directional ink-trace width measurements. *Pattern Recognition*, **2012**, 45, 162-171	7.7	101
62	Towards robust writer verification by correcting unnatural slant. *Pattern Recognition Letters*, **2011**, 32, 449-457	4.7	17
61	Predicting Eye Fixations on Complex Visual Stimuli Using Local Symmetry. *Cognitive Computation*, **2011**, 3, 223-240	4.4	77
60	Reinforcement learning algorithms for solving classification problems **2011**,		15
59	Segmental K-Means Learning with Mixture Distribution for HMM Based Handwriting Recognition. *Lecture Notes in Computer Science*, **2011**, 432-439	0.9	5
58	Recognition of Handwritten Numerical Fields in a Large Single-Writer Historical Collection **2009**,		8
57	Where are the Search Engines for Handwritten Documents?. *Interdisciplinary Science Reviews*, **2009**, 34, 224-235	0.7	6
56	Using symmetrical regions of interest to improve visual SLAM **2009**,		1
55	Text-image alignment for historical handwritten documents **2009**,		6
54	Using Local Symmetry for Landmark Selection. *Lecture Notes in Computer Science*, **2009**, 94-103	0.9	1
53	Writer Identification and Verification **2008**, 247-264		7

52	Handwritten-word spotting using biologically inspired features. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2008**, 30, 1945-57	13.3	54
51	How much handwritten text is needed for text-independent writer verification and identification **2008**,		14
50	Automatic removal of crossed-out handwritten text and the effect on writer verification and identification **2008**,		11
49	Word mining in a sparsely labeled handwritten collection **2008**,		3
48	Retrieval of Handwritten Lines in Historical Documents. *Proc Int Conf Doc Anal Recognit*, **2007**,		3
47	Using codebooks of fragmented connected-component contours in forensic and historic writer identification. *Pattern Recognition Letters*, **2007**, 28, 719-727	4.7	81
46	AUTOMATIC ALLOGRAPH MATCHING IN FORENSIC WRITER IDENTIFICATION. *International Journal of Pattern Recognition and Artificial Intelligence*, **2007**, 21, 61-81	1.1	30
45	Layout Analysis of Handwritten Historical Documents for Searching the Archive of the Cabinet of the Dutch Queen. *Proc Int Conf Doc Anal Recognit*, **2007**,		30
44	Text-independent writer identification and verification using textural and allographic features. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2007**, 29, 701-17	13.3	320
43	Towards Explainable Writer Verification and Identification Using Vantage Writers. *Proc Int Conf Doc Anal Recognit*, **2007**,		16
42	Text-Independent Writer Identification and Verification on Offline Arabic Handwriting. *Proc Int Conf Doc Anal Recognit*, **2007**,		46
41	Automatic Handwriting Identification on Medieval Documents **2007**,		21
40	Advances in Writer Identification and Verification. *Proc Int Conf Doc Anal Recognit*, **2007**,		32
39	Reading Systems: An Introduction to Digital Document Processing. *Advances in Pattern Recognition*, **2007**, 1-28		
38	Pen force emulating robotic writing device and its application **2005**,		4
37	A comparison of clustering methods for writer identification and verification **2005**,		18
36	Text-Pose Estimation in 3D Using Edge-Direction Distributions. *Lecture Notes in Computer Science*, **2005**, 625-634	0.9	
35	Text detection from natural scene images: towards a system for visually impaired persons **2004**,		87

34	Automatic writer identification using connected-component contours and edge-based features of uppercase Western script. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2004**, 26, 787-98	13.3	176
33	Writer Style from Oriented Edge Fragments. *Lecture Notes in Computer Science*, **2003**, 460-469	0.9	21
32	Architectures for detecting and solving conflicts: two-stage classification and support vector classifiers. *International Journal on Document Analysis and Recognition*, **2003**, 5, 213-223	3.8	18
31	New use for the pen: outline-based image queries **1999**,		5
30	Finding features used in the human reading of cursive handwriting. *International Journal on Document Analysis and Recognition*, **1999**, 2, 13-18	3.8	27
29	A METHOD FOR THE DETERMINATION OF FEATURES USED IN HUMAN READING OF CURSIVE HANDWRITING. *Series in Machine Perception and Artificial Intelligence*, **1999**, 193-202	0.3	2
28	Using Pen-Based Outlines for Object-Based Annotation and Image-Based Queries. *Lecture Notes in Computer Science*, **1999**, 585-592	0.9	17
27	From handwriting analysis to pen-computer applications. *Electronics and Communication Engineering Journal*, **1998**, 10, 93-102		30
26	Melodic cues for metre. *Perception*, **1994**, 23, 965-76	1.2	19
25	Limb-segment selection in drawing behaviour. *Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology*, **1993**, 46, 273-99		27
24	Using stroke- or character-based self-organizing maps in the recognition of on-line, connected cursive script. *Pattern Recognition*, **1993**, 26, 443-450	7.7	41
23	Invariant properties between stroke features in handwriting. *Acta Psychologica*, **1993**, 82, 69-88	1.7	43
22	Neuromotor noise and poor handwriting in children. *Acta Psychologica*, **1993**, 82, 161-78	1.7	77
21	FittsSlaw as a low-pass filter effect of muscle stiffness. *Human Movement Science*, **1992**, 11, 11-21	2.4	108
20	A neural oscillator-network model of temporal pattern generation. *Human Movement Science*, **1992**, 11, 181-192	2.4	4
19	Effects of motor programming on the power spectral density function of finger and wrist movements.. *Journal of Experimental Psychology: Human Perception and Performance*, **1990**, 16, 755-765	2.6	78
18	The relation between pen force and pen-point kinematics in handwriting. *Biological Cybernetics*, **1990**, 63, 277-289	2.8	54
17	Effects of motor programming on the power spectral density function of finger and wrist movements. *Journal of Experimental Psychology: Human Perception and Performance*, **1990**, 16, 755-65	2.6	17

16	Between-Letter Context Effects in Handwriting Trajectories. *Advances in Psychology*, **1986**, 37, 253-272		14
15	On the use and Limitations of Averaging Handwriting Signals. *Advances in Psychology*, **1986**, 225-238		3
14	The Influence of Changes in the Effector Coordinate System on Handwriting Movements. *Advances in Psychology*, **1986**, 37, 33-46		12
13	Influence of motor unit firing statistics on the median frequency of the EMG power spectrum. *European Journal of Applied Physiology and Occupational Physiology*, **1984**, 52, 207-13		35
12	Amplitude and bandwidth of the frontalis surface EMG: effects of electrode parameters. *Psychophysiology*, **1984**, 21, 699-707	4.1	21
11	Motor unit firing rate during static contraction indicated by the surface EMG power spectrum. *IEEE Transactions on Biomedical Engineering*, **1983**, 30, 601-9	5	38
10	Habituation of the human blink reflex: The effect of stimulus frequency and the state of arousal. *Physiological Psychology*, **1982**, 10, 325-330		10
9	Finding structure in diversity: a hierarchical clustering method for the categorization of allographs in handwriting		9
8	Sparse-parametric writer identification using heterogeneous feature groups		10
7	Verifying the UNIPEN devset		3
6	Automatic writer identification using fragmented connected-component contours		27
5	Anticipation in cybernetic systems: a case against mindless anti-representationalism		4
4	The WANDAML markup language for digital document annotation		3
3	Writer identification using edge-based directional features		77
2	An overview and comparison of voting methods for pattern recognition		52
1	UNIPEN project of on-line data exchange and recognizer benchmarks		168