

# Hermann Ney

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10427213/publications.pdf>

Version: 2024-02-01

90  
papers

6,113  
citations

304368

22  
h-index

264894

42  
g-index

90  
all docs

90  
docs citations

90  
times ranked

3003  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Systematic Comparison of Various Statistical Alignment Models. Computational Linguistics, 2003, 29, 19-51.	2.5	1,897
2	Features for image retrieval: an experimental comparison. Information Retrieval, 2008, 11, 77-107.	1.6	456
3	The Alignment Template Approach to Statistical Machine Translation. Computational Linguistics, 2004, 30, 417-449.	2.5	438
4	Joint-sequence models for grapheme-to-phoneme conversion. Speech Communication, 2008, 50, 434-451.	1.6	399
5	From Feedforward to Recurrent LSTM Neural Networks for Language Modeling. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 517-529.	4.0	359
6	On structuring probabilistic dependences in stochastic language modelling. Computer Speech and Language, 1994, 8, 1-38.	2.9	328
7	Deformation Models for Image Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1422-1435.	9.7	192
8	Automatic categorization of medical images for content-based retrieval and data mining. Computerized Medical Imaging and Graphics, 2005, 29, 143-155.	3.5	183
9	Weakly Supervised Learning with Multi-Stream CNN-LSTM-HMMs to Discover Sequential Parallelism in Sign Language Videos. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 2306-2320.	9.7	157
10	Algorithms for bigram and trigram word clustering. Speech Communication, 1998, 24, 19-37.	1.6	127
11	Word Reordering and a Dynamic Programming Beam Search Algorithm for Statistical Machine Translation. Computational Linguistics, 2003, 29, 97-133.	2.5	124
12	Statistical Approaches to Computer-Assisted Translation. Computational Linguistics, 2009, 35, 3-28.	2.5	118
13	A comprehensive study of deep bidirectional LSTM RNNs for acoustic modeling in speech recognition. , 2017, , .		88
14	Features for Image Retrieval: A Quantitative Comparison. Lecture Notes in Computer Science, 2004, , 228-236.	1.0	67
15	The CLEF 2005 Automatic Medical Image Annotation Task. International Journal of Computer Vision, 2007, 74, 51-58.	10.9	61
16	Word-Level Confidence Estimation for Machine Translation. Computational Linguistics, 2007, 33, 9-40.	2.5	58
17	Multilingual representations for low resource speech recognition and keyword search. , 2015, , .		55
18	Comparing Stochastic Approaches to Spoken Language Understanding in Multiple Languages. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1569-1583.	3.8	49

#	ARTICLE	IF	CITATIONS
19	Spoken language processing techniques for sign language recognition and translation. <i>Technology and Disability</i> , 2008, 20, 121-133.	0.3	42
20	Hierarchical hybrid MLP/HMM or rather MLP features for a discriminatively trained Gaussian HMM: A comparison for offline handwriting recognition. , 2011, , .		37
21	Returnn: The RWTH extensible training framework for universal recurrent neural networks. , 2017, , .		37
22	Audio segmentation for speech recognition using segment features. , 2009, , .		34
23	Mean-normalized stochastic gradient for large-scale deep learning. , 2014, , .		32
24	On the Benefits of Convolutional Neural Network Combinations in Offline Handwriting Recognition. , 2016, , .		32
25	Combination of Tangent Distance and an Image Distortion Model for Appearance-Based Sign Language Recognition. <i>Lecture Notes in Computer Science</i> , 2005, , 401-408.	1.0	32
26	Symmetric word alignments for statistical machine translation. , 2004, , .		31
27	FIRE in ImageCLEF 2005: Combining Content-Based Image Retrieval with Textual Information Retrieval. <i>Lecture Notes in Computer Science</i> , 2006, , 652-661.	1.0	31
28	Equivalence of Generative and Log-Linear Models. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011, 19, 1138-1148.	3.8	31
29	Moment-Based Image Normalization for Handwritten Text Recognition. , 2012, , .		29
30	System Combination for Machine Translation of Spoken and Written Language. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008, 16, 1222-1237.	3.8	27
31	Sparse Patch-Histograms for Object Classification in Cluttered Images. <i>Lecture Notes in Computer Science</i> , 2006, , 202-211.	1.0	27
32	Learning weighted distances for relevance feedback in image retrieval. , 2008, , .		24
33	Cross-lingual portability of Chinese and english neural network features for French and German LVCSR. , 2011, , .		24
34	Recent efforts in spoken language translation. <i>IEEE Signal Processing Magazine</i> , 2008, 25, 80-88.	4.6	23
35	The 2006 RWTH parliamentary speeches transcription system. , 0, , .		23
36	Analysis, preparation, and optimization of statistical sign language machine translation. <i>Machine Translation</i> , 2012, 26, 325-357.	1.3	21

#	ARTICLE	IF	CITATIONS
37	Statistical Image Object Recognition using Mixture Densities. Journal of Mathematical Imaging and Vision, 2001, 14, 285-296.	0.8	20
38	Integration of Speech Recognition and Machine Translation in Computer-Assisted Translation. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 1551-1564.	3.8	20
39	Enhanced continuous sign language recognition using PCA and neural network features. , 2012, , .		19
40	Image Retrieval and Annotation Using Maximum Entropy. Lecture Notes in Computer Science, 2007, , 725-734.	1.0	19
41	Sub-lexical language models for German LVCSR. , 2010, , .		18
42	Bidirectional Decoder Networks for Attention-Based End-to-End Offline Handwriting Recognition. , 2016, , .		18
43	Using morpheme and syllable based sub-words for polish LVCSR. , 2011, , .		17
44	Margin-Based Discriminative Training for String Recognition. IEEE Journal on Selected Topics in Signal Processing, 2010, 4, 917-925.	7.3	16
45	Performance analysis of Neural Networks in combination with n-gram language models. , 2012, , .		16
46	Training Language Models for Long-Span Cross-Sentence Evaluation. , 2019, , .		16
47	Development of the 2007 RWTH Mandarin LVCSR system. , 2007, , .		15
48	Advances in Arabic broadcast news transcription at RWTH. , 2007, , .		13
49	A comparative analysis of dynamic network decoding. , 2011, , .		12
50	Read My Lips: Continuous Signer Independent Weakly Supervised Viseme Recognition. Lecture Notes in Computer Science, 2014, , 281-296.	1.0	12
51	Applications of Statistical Machine Translation Approaches to Spoken Language Understanding. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 803-818.	3.8	11
52	Generating Alignments Using Target Foresight in Attention-Based Neural Machine Translation. Prague Bulletin of Mathematical Linguistics, 2017, 108, 27-36.	0.7	11
53	The RWTH Arabic-to-English spoken language translation system. , 2007, , .		10
54	Bayes Decision Rules and Confidence Measures for Statistical Machine Translation. Lecture Notes in Computer Science, 2004, , 70-81.	1.0	10

#	ARTICLE	IF	CITATIONS
55	Investigations on the use of morpheme level features in Language Models for Arabic LVCSR. , 2012, , .		9
56	Investigation on log-linear interpolation of multi-domain neural network language model. , 2016, , .		9
57	Joining advantages of word-conditioned and token-passing decoding. , 2012, , .		8
58	Extended search space pruning in LVCSR. , 2012, , .		8
59	Improving Statistical Word Alignments with Morpho-syntactic Transformations. Lecture Notes in Computer Science, 2006, , 368-379.	1.0	8
60	Lexical Prefix Tree and WFST: A Comparison of Two Dynamic Search Concepts for LVCSR. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 1295-1307.	3.8	7
61	Investigations on an EM-Style Optimization Algorithm for Discriminative Training of HMMs. IEEE Transactions on Audio Speech and Language Processing, 2013, 21, 2616-2626.	3.8	7
62	Inverted Alignments for End-to-End Automatic Speech Recognition. IEEE Journal on Selected Topics in Signal Processing, 2017, 11, 1265-1273.	7.3	7
63	On the Relationship Between Bayes Risk and Word Error Rate in ASR. IEEE Transactions on Audio Speech and Language Processing, 2011, 19, 1103-1112.	3.8	6
64	Silence is golden: Modeling non-speech events in WFST-based dynamic network decoders. , 2012, , .		6
65	Comparison of Bernoulli and Gaussian HMMs Using a Vertical Repositioning Technique for Off-Line Handwriting Recognition. , 2012, , .		6
66	Subspace pursuit method for kernel-log-linear models. , 2011, , .		5
67	Using Alignment Templates to Infer Shallow-Transfer Machine Translation Rules. Lecture Notes in Computer Science, 2006, , 756-767.	1.0	5
68	A GIS-like training algorithm for log-linear models with hidden variables. , 2008, , .		4
69	EM-style optimization of hidden conditional random fields for grapheme-to-phoneme conversion. , 2011, , .		4
70	Hierarchical Phrase-Based Translation with Jane 2. Prague Bulletin of Mathematical Linguistics, 2012, 98, 37-50.	0.7	4
71	Improvement of Context Dependent Modeling for Arabic Handwriting Recognition. , 2014, , .		4
72	Investigations on byte-level convolutional neural networks for language modeling in low resource speech recognition. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
73	SVMs, Gaussian mixtures, and their generative/discriminative fusion. , 2008, , .		3
74	Discriminative splitting of Gaussian/log-linear mixture HMMs for speech recognition. , 2011, , .		3
75	Powerful extensions to CRFS for grapheme to phoneme conversion. , 2011, , .		3
76	Advanced search space pruning with acoustic look-ahead for WFST based LVCSR. , 2013, , .		3
77	The RWTH English lecture recognition system. , 2014, , .		3
78	Comparing the Benefit of Synthetic Training Data for Various Automatic Speech Recognition Architectures. , 2021, , .		3
79	Edit distances with block movements and error rate confidence estimates. Machine Translation, 2009, 23, 129-140.	1.3	2
80	Incorporating alignments into Conditional Random Fields for grapheme to phoneme conversion. , 2011, , .		2
81	Cardinality pruning and language model heuristics for hierarchical phrase-based translation. Machine Translation, 2012, 26, 217-254.	1.3	2
82	A family of discriminative training criteria based on the F-divergence for deep neural networks. , 2014, , .		2
83	Improved strategies for a zero oov rate LVCSR system. , 2015, , .		2
84	Faster sequence training. , 2017, , .		2
85	Two-Way Neural Machine Translation: A Proof of Concept for Bidirectional Translation Modeling Using a Two-Dimensional Grid. , 2021, , .		2
86	Czech-English Phrase-Based Machine Translation. Lecture Notes in Computer Science, 2006, , 214-224.	1.0	2
87	Comparison and combination of different CRBE based MLP features for LVCSR. , 2012, , .		1
88	The Use of the Maximum Likelihood Criterion in Language Modelling. , 1999, , 259-279.		1
89	Der statistische Ansatz in der maschinellen Sprachverarbeitung. , 2003, , 211-225.		0
90	Source-Side Discontinuous Phrases for Machine Translation: A Comparative Study on Phrase Extraction and Search. Prague Bulletin of Mathematical Linguistics, 2013, 99, 17-38.	0.7	0