

# Hermann Ney

## 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.

86  
papers

3,448  
citations

22  
h-index

58  
g-index

90  
ext. papers

4,171  
ext. citations

2.9  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
86	A Systematic Comparison of Various Statistical Alignment Models. <i>Computational Linguistics</i> , <b>2003</b> , 29, 19-51	2.8	924
85	Features for image retrieval: an experimental comparison. <i>Information Retrieval</i> , <b>2008</b> , 11, 77-107	1.8	339
84	From Feedforward to Recurrent LSTM Neural Networks for Language Modeling. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2015</b> , 23, 517-529	3.6	235
83	The Alignment Template Approach to Statistical Machine Translation. <i>Computational Linguistics</i> , <b>2004</b> , 30, 417-449	2.8	214
82	Joint-sequence models for grapheme-to-phoneme conversion. <i>Speech Communication</i> , <b>2008</b> , 50, 434-451	2.8	202
81	On structuring probabilistic dependences in stochastic language modelling. <i>Computer Speech and Language</i> , <b>1994</b> , 8, 1-38	2.8	197
80	Deformation models for image recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2007</b> , 29, 1422-35	13.3	143
79	Automatic categorization of medical images for content-based retrieval and data mining. <i>Computerized Medical Imaging and Graphics</i> , <b>2005</b> , 29, 143-55	7.6	136
78	Algorithms for bigram and trigram word clustering. <i>Speech Communication</i> , <b>1998</b> , 24, 19-37	2.8	74
77	Statistical Approaches to Computer-Assisted Translation. <i>Computational Linguistics</i> , <b>2009</b> , 35, 3-28	2.8	72
76	Weakly Supervised Learning with Multi-Stream CNN-LSTM-HMMs to Discover Sequential Parallelism in Sign Language Videos. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2020</b> , 42, 2306-2320	13.3	65
75	Word Reordering and a Dynamic Programming Beam Search Algorithm for Statistical Machine Translation. <i>Computational Linguistics</i> , <b>2003</b> , 29, 97-133	2.8	60
74	The CLEF 2005 Automatic Medical Image Annotation Task. <i>International Journal of Computer Vision</i> , <b>2007</b> , 74, 51-58	10.6	48
73	A comprehensive study of deep bidirectional LSTM RNNs for acoustic modeling in speech recognition <b>2017</b> ,		44
72	Features for Image Retrieval: A Quantitative Comparison. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 228-236		40
71	Word-Level Confidence Estimation for Machine Translation. <i>Computational Linguistics</i> , <b>2007</b> , 33, 9-40	2.8	37
70	Comparing Stochastic Approaches to Spoken Language Understanding in Multiple Languages. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2011</b> , 19, 1569-1583		31

69	Hierarchical hybrid MLP/HMM or rather MLP features for a discriminatively trained Gaussian HMM: A comparison for offline handwriting recognition <b>2011</b> ,		30
68	Equivalence of Generative and Log-Linear Models. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2011</b> , 19, 1138-1148		26
67	Spoken language processing techniques for sign language recognition and translation. <i>Technology and Disability</i> , <b>2008</b> , 20, 121-133	0.7	23
66	FIRE in ImageCLEF 2005: Combining Content-Based Image Retrieval with Textual Information Retrieval. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 652-661	0.9	23
65	Combination of Tangent Distance and an Image Distortion Model for Appearance-Based Sign Language Recognition. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 401-408	0.9	22
64	Moment-Based Image Normalization for Handwritten Text Recognition <b>2012</b> ,		21
63	Mean-normalized stochastic gradient for large-scale deep learning <b>2014</b> ,		20
62	On the Benefits of Convolutional Neural Network Combinations in Offline Handwriting Recognition <b>2016</b> ,		19
61	Audio segmentation for speech recognition using segment features <b>2009</b> ,		18
60	Sparse Patch-Histograms for Object Classification in Cluttered Images. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 202-211	0.9	18
59	Multilingual representations for low resource speech recognition and keyword search <b>2015</b> ,		17
58	Statistical Image Object Recognition using Mixture Densities. <i>Journal of Mathematical Imaging and Vision</i> , <b>2001</b> , 14, 285-296	1.6	17
57	Image Retrieval and Annotation Using Maximum Entropy. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 725-734		17
56	Learning weighted distances for relevance feedback in image retrieval <b>2008</b> ,		16
55	Enhanced continuous sign language recognition using PCA and neural network features <b>2012</b> ,		15
54	Symmetric word alignments for statistical machine translation <b>2004</b> ,		15
53	Margin-Based Discriminative Training for String Recognition. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2010</b> , 4, 917-925	7.5	14
52	Bidirectional Decoder Networks for Attention-Based End-to-End Offline Handwriting Recognition <b>2016</b> ,		14

51	Returnn: The RWTH extensible training framework for universal recurrent neural networks <b>2017</b> ,		13
50	Analysis, preparation, and optimization of statistical sign language machine translation. <i>Machine Translation</i> , <b>2012</b> , 26, 325-357	1.1	13
49	Integration of Speech Recognition and Machine Translation in Computer-Assisted Translation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2008</b> , 16, 1551-1564		13
48	. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2008</b> , 16, 1222-1237		13
47	Read My Lips: Continuous Signer Independent Weakly Supervised Viseme Recognition. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 281-296	0.9	11
46	Cross-lingual portability of Chinese and english neural network features for French and German LVCSR <b>2011</b> ,		10
45	Using morpheme and syllable based sub-words for polish LVCSR <b>2011</b> ,		10
44	A comparative analysis of dynamic network decoding <b>2011</b> ,		10
43	Recent efforts in spoken language translation. <i>IEEE Signal Processing Magazine</i> , <b>2008</b> , 25, 80-88	9.4	9
42	Sub-lexical language models for German LVCSR <b>2010</b> ,		8
41	Applications of Statistical Machine Translation Approaches to Spoken Language Understanding. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2009</b> , 17, 803-818		8
40	Performance analysis of Neural Networks in combination with n-gram language models <b>2012</b> ,		7
39	Advances in Arabic broadcast news transcription at RWTH <b>2007</b> ,		7
38	Development of the 2007 RWTH Mandarin LVCSR system <b>2007</b> ,		7
37	Lexical Prefix Tree and WFST: A Comparison of Two Dynamic Search Concepts for LVCSR. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 1295-1307		6
36	On the Relationship Between Bayes Risk and Word Error Rate in ASR. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2011</b> , 19, 1103-1112		6
35	Joining advantages of word-conditioned and token-passing decoding <b>2012</b> ,		6
34	Extended search space pruning in LVCSR <b>2012</b> ,		6

33	Silence is golden: Modeling non-speech events in WFST-based dynamic network decoders <b>2012</b> ,	6
32	Investigations on an EM-Style Optimization Algorithm for Discriminative Training of HMMs. <i>IEEE Transactions on Audio Speech and Language Processing</i> , <b>2013</b> , 21, 2616-2626	5
31	Investigations on the use of morpheme level features in Language Models for Arabic LVCSR <b>2012</b> ,	5
30	Investigation on log-linear interpolation of multi-domain neural network language model <b>2016</b> ,	4
29	Inverted Alignments for End-to-End Automatic Speech Recognition. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2017</b> , 11, 1265-1273	7.5 4
28	Comparison of Bernoulli and Gaussian HMMs Using a Vertical Repositioning Technique for Off-Line Handwriting Recognition <b>2012</b> ,	4
27	Subspace pursuit method for kernel-log-linear models <b>2011</b> ,	4
26	Generating Alignments Using Target Foresight in Attention-Based Neural Machine Translation. <i>Prague Bulletin of Mathematical Linguistics</i> , <b>2017</b> , 108, 27-36	0.3 4
25	Bayes Decision Rules and Confidence Measures for Statistical Machine Translation. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 70-81	0.9 4
24	Advanced search space pruning with acoustic look-ahead for WFST based LVCSR <b>2013</b> ,	3
23	EM-style optimization of hidden conditional random fields for grapheme-to-phoneme conversion <b>2011</b> ,	3
22	A GIS-like training algorithm for log-linear models with hidden variables <b>2008</b> ,	3
21	SVMs, Gaussian mixtures, and their generative/discriminative fusion <b>2008</b> ,	3
20	The RWTH Arabic-to-English spoken language translation system <b>2007</b> ,	3
19	The 2006 RWTH parliamentary speeches transcription system	3
18	Improved strategies for a zero oov rate LVCSR system <b>2015</b> ,	2
17	The RWTH English lecture recognition system <b>2014</b> ,	2
16	Improvement of Context Dependent Modeling for Arabic Handwriting Recognition <b>2014</b> ,	2

15	Cardinality pruning and language model heuristics for hierarchical phrase-based translation. <i>Machine Translation</i> , <b>2012</b> , 26, 217-254	1.1	2
14	Edit distances with block movements and error rate confidence estimates. <i>Machine Translation</i> , <b>2009</b> , 23, 129-140	1.1	2
13	Training Language Models for Long-Span Cross-Sentence Evaluation <b>2019</b> ,		2
12	Using Alignment Templates to Infer Shallow-Transfer Machine Translation Rules. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 756-767	0.9	2
11	Investigations on byte-level convolutional neural networks for language modeling in low resource speech recognition <b>2017</b> ,		1
10	A family of discriminative training criteria based on the F-divergence for deep neural networks <b>2014</b> ,		1
9	Discriminative splitting of Gaussian/log-linear mixture HMMs for speech recognition <b>2011</b> ,		1
8	Powerful extensions to CRFS for grapheme to phoneme conversion <b>2011</b> ,		1
7	Incorporating alignments into Conditional Random Fields for grapheme to phoneme conversion <b>2011</b> ,		1
6	The Use of the Maximum Likelihood Criterion in Language Modelling <b>1999</b> , 259-279		1
5	Czech-English Phrase-Based Machine Translation. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 214-224	0.9	1
4	Improving Statistical Word Alignments with Morpho-syntactic Transformations. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 368-379	0.9	0
3	Hierarchical Phrase-Based Translation with Jane 2. <i>Prague Bulletin of Mathematical Linguistics</i> , <b>2012</b> , 98, 37-50	0.3	
2	Der statistische Ansatz in der maschinellen Sprachverarbeitung <b>2003</b> , 211-225		
1	Source-Side Discontinuous Phrases for Machine Translation: A Comparative Study on Phrase Extraction and Search. <i>Prague Bulletin of Mathematical Linguistics</i> , <b>2013</b> , 99, 17-38	0.3	