

Hermann Ney

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.

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	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> , 2020 , 42, 2306-2320	13.3	65
85	Training Language Models for Long-Span Cross-Sentence Evaluation 2019 ,		2
84	Inverted Alignments for End-to-End Automatic Speech Recognition. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2017 , 11, 1265-1273	7.5	4
83	Investigations on byte-level convolutional neural networks for language modeling in low resource speech recognition 2017 ,		1
82	Returnn: The RWTH extensible training framework for universal recurrent neural networks 2017 ,		13
81	A comprehensive study of deep bidirectional LSTM RNNs for acoustic modeling in speech recognition 2017 ,		44
80	Generating Alignments Using Target Foresight in Attention-Based Neural Machine Translation. <i>Prague Bulletin of Mathematical Linguistics</i> , 2017 , 108, 27-36	0.3	4
79	Investigation on log-linear interpolation of multi-domain neural network language model 2016 ,		4
78	Bidirectional Decoder Networks for Attention-Based End-to-End Offline Handwriting Recognition 2016 ,		14
77	On the Benefits of Convolutional Neural Network Combinations in Offline Handwriting Recognition 2016 ,		19
76	From Feedforward to Recurrent LSTM Neural Networks for Language Modeling. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2015 , 23, 517-529	3.6	235
75	Multilingual representations for low resource speech recognition and keyword search 2015 ,		17
74	Improved strategies for a zero oov rate LVCSR system 2015 ,		2
73	Mean-normalized stochastic gradient for large-scale deep learning 2014 ,		20
72	A family of discriminative training criteria based on the F-divergence for deep neural networks 2014 ,		1
71	The RWTH English lecture recognition system 2014 ,		2
70	Improvement of Context Dependent Modeling for Arabic Handwriting Recognition 2014 ,		2

69	Read My Lips: Continuous Signer Independent Weakly Supervised Viseme Recognition. <i>Lecture Notes in Computer Science</i> , 2014 , 281-296	0.9	11
68	Lexical Prefix Tree and WFST: A Comparison of Two Dynamic Search Concepts for LVCSR. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013 , 21, 1295-1307		6
67	Investigations on an EM-Style Optimization Algorithm for Discriminative Training of HMMs. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2013 , 21, 2616-2626		5
66	Advanced search space pruning with acoustic look-ahead for WFST based LVCSR 2013 ,		3
65	Source-Side Discontinuous Phrases for Machine Translation: A Comparative Study on Phrase Extraction and Search. <i>Prague Bulletin of Mathematical Linguistics</i> , 2013 , 99, 17-38	0.3	
64	Moment-Based Image Normalization for Handwritten Text Recognition 2012 ,		21
63	Cardinality pruning and language model heuristics for hierarchical phrase-based translation. <i>Machine Translation</i> , 2012 , 26, 217-254	1.1	2
62	Analysis, preparation, and optimization of statistical sign language machine translation. <i>Machine Translation</i> , 2012 , 26, 325-357	1.1	13
61	Comparison of Bernoulli and Gaussian HMMs Using a Vertical Repositioning Technique for Off-Line Handwriting Recognition 2012 ,		4
60	Enhanced continuous sign language recognition using PCA and neural network features 2012 ,		15
59	Joining advantages of word-conditioned and token-passing decoding 2012 ,		6
58	Extended search space pruning in LVCSR 2012 ,		6
57	Performance analysis of Neural Networks in combination with n-gram language models 2012 ,		7
56	Investigations on the use of morpheme level features in Language Models for Arabic LVCSR 2012 ,		5
55	Silence is golden: Modeling non-speech events in WFST-based dynamic network decoders 2012 ,		6
54	Hierarchical Phrase-Based Translation with Jane 2. <i>Prague Bulletin of Mathematical Linguistics</i> , 2012 , 98, 37-50	0.3	
53	Hierarchical hybrid MLP/HMM or rather MLP features for a discriminatively trained Gaussian HMM: A comparison for offline handwriting recognition 2011 ,		30
52	Discriminative splitting of Gaussian/log-linear mixture HMMs for speech recognition 2011 ,		1

51	Equivalence of Generative and Log-Linear Models. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011 , 19, 1138-1148		26
50	On the Relationship Between Bayes Risk and Word Error Rate in ASR. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011 , 19, 1103-1112		6
49	Comparing Stochastic Approaches to Spoken Language Understanding in Multiple Languages. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2011 , 19, 1569-1583		31
48	Cross-lingual portability of Chinese and english neural network features for French and German LVCSR 2011 ,		10
47	EM-style optimization of hidden conditional random fields for grapheme-to-phoneme conversion 2011 ,		3
46	Subspace pursuit method for kernel-log-linear models 2011 ,		4
45	Using morpheme and syllable based sub-words for polish LVCSR 2011 ,		10
44	Powerful extensions to CRFS for grapheme to phoneme conversion 2011 ,		1
43	A comparative analysis of dynamic network decoding 2011 ,		10
42	Incorporating alignments into Conditional Random Fields for grapheme to phoneme conversion 2011 ,		1
41	Sub-lexical language models for German LVCSR 2010 ,		8
40	Margin-Based Discriminative Training for String Recognition. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2010 , 4, 917-925	7.5	14
39	Audio segmentation for speech recognition using segment features 2009 ,		18
38	Applications of Statistical Machine Translation Approaches to Spoken Language Understanding. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2009 , 17, 803-818		8
37	Edit distances with block movements and error rate confidence estimates. <i>Machine Translation</i> , 2009 , 23, 129-140	1.1	2
36	Statistical Approaches to Computer-Assisted Translation. <i>Computational Linguistics</i> , 2009 , 35, 3-28	2.8	72
35	Integration of Speech Recognition and Machine Translation in Computer-Assisted Translation. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 1551-1564		13
34	. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008 , 16, 1222-1237		13

33	Recent efforts in spoken language translation. <i>IEEE Signal Processing Magazine</i> , 2008 , 25, 80-88	9.4	9
32	A GIS-like training algorithm for log-linear models with hidden variables 2008 ,		3
31	SVMs, Gaussian mixtures, and their generative/discriminative fusion 2008 ,		3
30	Learning weighted distances for relevance feedback in image retrieval 2008 ,		16
29	Spoken language processing techniques for sign language recognition and translation. <i>Technology and Disability</i> , 2008 , 20, 121-133	0.7	23
28	Features for image retrieval: an experimental comparison. <i>Information Retrieval</i> , 2008 , 11, 77-107	1.8	339
27	Joint-sequence models for grapheme-to-phoneme conversion. <i>Speech Communication</i> , 2008 , 50, 434-451	1.8	202
26	Advances in Arabic broadcast news transcription at RWTH 2007 ,		7
25	The CLEF 2005 Automatic Medical Image Annotation Task. <i>International Journal of Computer Vision</i> , 2007 , 74, 51-58	10.6	48
24	Word-Level Confidence Estimation for Machine Translation. <i>Computational Linguistics</i> , 2007 , 33, 9-40	2.8	37
23	Deformation models for image recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007 , 29, 1422-35	13.3	143
22	The RWTH Arabic-to-English spoken language translation system 2007 ,		3
21	Development of the 2007 RWTH Mandarin LVCSR system 2007 ,		7
20	Image Retrieval and Annotation Using Maximum Entropy. <i>Lecture Notes in Computer Science</i> , 2007 , 725-734	0.9	17
19	FIRE in ImageCLEF 2005: Combining Content-Based Image Retrieval with Textual Information Retrieval. <i>Lecture Notes in Computer Science</i> , 2006 , 652-661	0.9	23
18	Improving Statistical Word Alignments with Morpho-syntactic Transformations. <i>Lecture Notes in Computer Science</i> , 2006 , 368-379	0.9	0
17	Czech-English Phrase-Based Machine Translation. <i>Lecture Notes in Computer Science</i> , 2006 , 214-224	0.9	1
16	Using Alignment Templates to Infer Shallow-Transfer Machine Translation Rules. <i>Lecture Notes in Computer Science</i> , 2006 , 756-767	0.9	2

15	Sparse Patch-Histograms for Object Classification in Cluttered Images. <i>Lecture Notes in Computer Science</i> , 2006 , 202-211	0.9	18
14	Automatic categorization of medical images for content-based retrieval and data mining. <i>Computerized Medical Imaging and Graphics</i> , 2005 , 29, 143-55	7.6	136
13	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	0.9	22
12	Symmetric word alignments for statistical machine translation 2004 ,		15
11	Features for Image Retrieval: A Quantitative Comparison. <i>Lecture Notes in Computer Science</i> , 2004 , 228-236		40
10	The Alignment Template Approach to Statistical Machine Translation. <i>Computational Linguistics</i> , 2004 , 30, 417-449	2.8	214
9	Bayes Decision Rules and Confidence Measures for Statistical Machine Translation. <i>Lecture Notes in Computer Science</i> , 2004 , 70-81	0.9	4
8	Word Reordering and a Dynamic Programming Beam Search Algorithm for Statistical Machine Translation. <i>Computational Linguistics</i> , 2003 , 29, 97-133	2.8	60
7	A Systematic Comparison of Various Statistical Alignment Models. <i>Computational Linguistics</i> , 2003 , 29, 19-51	2.8	924
6	Der statistische Ansatz in der maschinellen Sprachverarbeitung 2003 , 211-225		
5	Statistical Image Object Recognition using Mixture Densities. <i>Journal of Mathematical Imaging and Vision</i> , 2001 , 14, 285-296	1.6	17
4	The Use of the Maximum Likelihood Criterion in Language Modelling 1999 , 259-279		1
3	Algorithms for bigram and trigram word clustering. <i>Speech Communication</i> , 1998 , 24, 19-37	2.8	74
2	On structuring probabilistic dependences in stochastic language modelling. <i>Computer Speech and Language</i> , 1994 , 8, 1-38	2.8	197
1	The 2006 RWTH parliamentary speeches transcription system		3