



Cognitive Sciences and Applications : Natural Language Processing
Sciences Cognitives et Applications : Traitement Automatique des Langues
Bibliographie

1 Programming for Beginners

- <http://www.france-ioi.org/>
- <http://people.irisa.fr/Martin.Quinson/Teaching/PLM/>

2 Formal Modeling

- Bouillon 1998
- Martin et Jurafsky 2000
Free TOC available here :
— <http://www.ulb.tu-darmstadt.de/tocs/203636384.pdf>
Free Chapter 1 available here :
— <http://www.cs.colorado.edu/~martin/SLP/Updates/1.pdf>
- Hopcroft, Motwani et Ullman 2006 Free TOC available here :
http://www.academia.edu/download/31352670/19s_Automata_Theory.pdf
- Roche et Schabes 1997

3 Computational Semantics

- Blackburn et Bos 2005
Free PDF available here :
<http://www.coli.uni-saarland.de/publikationen/softcopies/Blackburn:1997:RIN.pdf>
- Kamp et Reyle 2013
- Busquets, Vieu et Asher 2001
Free PDF available here :
<https://www.irit.fr/publis/LILAC/BVA-VERB01.pdf>
- Amblard et Pogodalla 2014
Free PDF available here :
<https://hal.inria.fr/hal-00737765/file/amblard-pogodalla.pdf>

4 Phonetics and Phonology

- Introduction on articulatory phonetics : <https://youtu.be/dfoRdKuPF9I>
- Deep learning for speech recognition (Adam Coates, Baidu) : <https://youtu.be/g-sndkf7mCs>

5 Description Logic, Semantic Web and Ontologies

- Baader et al. 2003
- Hitzler, Krötsch et Rudolph 2009
- Staab et Studer 2009

6 Knowledge, Data Mining and FCA

- Tan, Steinbach et Kumar 2006
- Carpineto et Romano 2004
- Zaki et Jr 2014
- Davey et Priestley 2002

7 Machine Learning and Deep Neural Network

- Goodfellow, Bengio et Courville 2016
Free PDF available here :
<https://github.com/HFTrader/DeepLearningBook>
- Bishop 2006
- Hertz, Krogh et Palmer 1991
- Touzet 1992
Free PDF available here :
<https://hal-amu.archives-ouvertes.fr/hal-01338010/>
- Dreyfus et al. 2002
- III 2016
Free PDF available here :
<https://github.com/hal3/ciml/>
- Mikolov et al. 2013
- Li et Gaussier 2010
- Rabiner 1989
- Chen et Goodman 1999
- Salton et McGill 1983
- Adriani et Rijsbergen 1999
- Haton et al. 2006
- Brown et al. 1990
- Deligne et Bimbot 1995
- Jelinek 1976
- Bengio et al. 2006
- Papineni et al. 2002
- Kuhn et De Mori 1990
- Lau, Rosenfeld et Roukos 1993
- Philipp Koehn 2009
- Lavecchia, David Langlois et Kamel Smaili 2008
- P. Koehn 2004
- Raybaud, D. Langlois et K. Smaili 2011

8 Linguistics

- Beaken 2011
- Lieberman 1998
- Catford p.d.
- Ladefoged et Johnson 2006
- Mike Davenport, Michael Davenport et Hannahs 2010
- Denning, Kessler et Leben 2007
- Lieber 2004
- Yu 2007
- Coates 2002
- Payne 2006

- Swan et Widdowson 2005
- Tallerman 2014
- Cruse 2000
- Saeed 2003
- Aitchison 2012
- Peccei 1999
- Grundy 2008
- Cutting 2005
- Apel et Masterson 2001
- O’Grady 2005
- Ellis 2012
- Lightbown et Spada 2006
- Wennerstrom 2001
- Nooteboom 1997

9 Philosophy

- Esfeld 2005

Références

- Adriani, M. et C. J. Van Rijsbergen (1999). “Term Similarity-Based Query Expansion for Cross-Language Information Retrieval”. In : *Proceedings of the International Conference ECDL’99, LNCS*. T. 1696, p. 311–322 (cf. p. 2).
- Aitchison, Jean (2012). *Words in the mind : An introduction to the mental lexicon*. John Wiley & Sons (cf. p. 3).
- Amblard, Maxime et Sylvain Pogodalla (2014). “Modeling the Dynamic Effects of Discourse : Principles and Frameworks”. In : *Dialogue, Rationality, and Formalism*. Sous la dir. de Manuel Rebuschi et al. T. 3. Interdisciplinary Works in Logic, Epistemology, Psychology and Linguistics. Logic, Argumentation & Reasoning. Springer, p. 247–282. DOI : 10.1007/978-3-319-03044-9_12. HAL archive ouverte : [hal-00737765](#) (cf. p. 1).
- Apel, Kenn et Julie J Masterson (2001). *Beyond Baby Talk : From Sounds to Sentences—A Parent’s Complete Guide to Language Development*. ERIC (cf. p. 3).
- Baader, Franz et al., éd. (2003). *The Description Logic Handbook*. Cambridge, UK : Cambridge University Press (cf. p. 1).
- Beaken, Mike (2011). *The making of language*. Dunedin Academic, (cf. p. 2).
- Bengio, Yoshua et al. (2006). “Neural probabilistic language models”. In : *Innovations in Machine Learning*. Springer, p. 137–186 (cf. p. 2).
- Bishop, Christopher M (2006). “Pattern recognition”. In : *Machine Learning* 128, p. 1–58 (cf. p. 2).
- Blackburn, Patrick et Johan Bos (2005). “Representation and inference for natural language”. In : *A first course in computational semantics. CSLI* (cf. p. 1).
- Bouillon, Pierrette (1998). *Traitement automatique des langues naturelles*. De Boeck Supérieur (cf. p. 1).
- Brown, Peter F et al. (1990). “A statistical approach to machine translation”. In : *Computational linguistics* 16.2, p. 79–85 (cf. p. 2).
- Busquets, Joan, Laure Vieu et Nicholas Asher (2001). “La SDRT : une approche de la cohérence du discours dans la tradition de la sémantique dynamique”. In : *Verbum* 23.1, p. 73–101 (cf. p. 1).
- Carpineto, Claudio et Giovanni Romano (2004). *Concept Data Analysis : Theory and Applications*. Chichester, UK : John Wiley & Sons (cf. p. 2).
- Catford, John. C. 2002. *A practical introduction to phonetics* (cf. p. 2).
- Chen, S. F. et J. Goodman (1999). “An empirical study of smoothing techniques for language modeling”. In : *Computer Speech and Language* 13, p. 359–394 (cf. p. 2).

- Coates, Richard (2002). *Word structure*. Routledge (cf. p. 2).
- Cruse, Alan (2000). *Meaning in language* (cf. p. 3).
- Cutting, Joan et al. (2005). *Pragmatics and discourse : A resource book for students*. Routledge (cf. p. 3).
- Davenport, Mike, Michael Davenport et SJ Hannahs (2010). *Introducing phonetics and phonology*. Routledge (cf. p. 2).
- Davey, B.A. et H.A. Priestley (2002). *Introduction to Lattices and Order*. Cambridge mathematical text books. Cambridge University Press. URL : <https://books.google.fr/books?id=vVVTxeuiyvQC> (cf. p. 2).
- Deligne, Sabine et Frederic Bimbot (1995). “Language evaluation of multigrams”. In : *Acoustics, Speech, and Signal Processing, 1995. ICASSP-95., 1995 International Conference on*. T. 1. IEEE, p. 169–172 (cf. p. 2).
- Denning, Keith, Brett Kessler et William R Leben (2007). *English vocabulary elements*. Oxford University Press (cf. p. 2).
- Dreyfus, Gérard et al. (2002). “Réseaux de neurones”. In : *Méthodologie et applications*. Eyrolles, Paris 1 (cf. p. 2).
- Ellis, R (2012). “Second language acquisition”. In : *The United States : Oxford* (cf. p. 3).
- Esfeld, Michael (2005). *La philosophie de l'esprit : de la relation entre l'esprit et la nature*. Armand Colin (cf. p. 3).
- Goodfellow, Ian, Yoshua Bengio et Aaron Courville (2016). *Deep learning*. MIT Press (cf. p. 2).
- Grundy, P (2008). “Doing pragmatics 3rd Ed”. In : *London : Hodder Education* (cf. p. 3).
- Haton, J. P. et al. (2006). *Reconnaissance automatique de la parole : du signal à son interprétation*. DUNOD, p. 370 (cf. p. 2).
- Hertz, John A, Anders S Krogh et Richard G Palmer (1991). *Introduction to the theory of neural computation*. T. 1. Basic Books (cf. p. 2).
- Hitzler, Pascal, Markus Krötsch et Sebastian Rudolph (2009). *Foundations of Semantic Web Technologies*. Boca Raton (FL) : CRC Press (cf. p. 1).
- Hopcroft, John E, Rajeev Motwani et Jeffrey D Ullman (2006). “Automata theory, languages, and computation”. In : *International Edition 24* (cf. p. 1).
- III, Hal Daumé (2016). *A Course in Machine Learning*. self published (cf. p. 2).
- Jelinek, Fred (1976). “CONTINUOUS SPEECH RECOGNITION BY STATISTICAL-METHODS”. In : *Proceedings of the IEEE* 64.4, p. 532–556 (cf. p. 2).
- Kamp, Hans et Uwe Reyle (2013). *From discourse to logic : Introduction to modeltheoretic semantics of natural language, formal logic and discourse representation theory*. T. 42. Springer Science & Business Media (cf. p. 1).
- Koehn, P. (2004). “A Beam Search Decoder for Phrase-Based Statistical Machine Translation Models”. In : *Conference of the Association for Machine Translation in the Americas, AMTA*, p. 115–124 (cf. p. 2).
- Koehn, Philipp (2009). *Statistical machine translation*. Cambridge University Press (cf. p. 2).
- Kuhn, Roland et Renato De Mori (1990). “A cache-based natural language model for speech recognition”. In : *Pattern Analysis and Machine Intelligence, IEEE Transactions on* 12.6, p. 570–583 (cf. p. 2).
- Ladefoged, Peter et K Johnson (2006). “A Course in Phonetics (5th)”. In : *Thomson Wadsworth* (cf. p. 2).
- Lau, Raymond, Ronald Rosenfeld et Salim Roukos (1993). “Trigger-based language models : A maximum entropy approach”. In : *Acoustics, Speech, and Signal Processing, 1993. ICASSP-93., 1993 IEEE International Conference on*. T. 2. IEEE, p. 45–48 (cf. p. 2).
- Lavecchia, Caroline, David Langlois et Kamel Smaili (2008). “Discovering phrases in machine translation by simulated annealing”. In : *INTERSPEECH 2008, 9th Annual Conference of the International Speech Communication Association, Brisbane, Australia, September 22-26, 2008*, p. 2354–2357. URL : http://www.isca-speech.org/archive/interspeech_2008/i08_2354.html (cf. p. 2).

- Li, Bo et Éric Gaussier (2010). “Improving Corpus Comparability for Bilingual Lexicon Extraction from Comparable Corpora”. In : *COLING 2010, 23rd International Conference on Computational Linguistics, Proceedings of the Conference, 23-27 August 2010, Beijing, China*, p. 644–652 (cf. p. 2).
- Lieber, Rochelle (2004). *Morphology and lexical semantics*. T. 104. Cambridge University Press (cf. p. 2).
- Lieberman, Philip (1998). *Eve spoke : Human language and human evolution*. WW Norton & Company (cf. p. 2).
- Lightbown, Patsy M et Nina Spada (2006). *How languages are learned*. Oxford University Press (cf. p. 3).
- Martin, James H et Daniel Jurafsky (2000). “Speech and language processing”. In : *International Edition* 710 (cf. p. 1).
- Mikolov, Tomas et al. (2013). “Efficient Estimation of Word Representations in Vector Space”. In : *CoRR* abs/1301.3781 (cf. p. 2).
- Nooteboom, Sieb (1997). “The prosody of speech : melody and rhythm”. In : *The handbook of phonetic sciences* 5, p. 640–673 (cf. p. 3).
- O’Grady, William (2005). *How children learn language*. Cambridge University Press (cf. p. 3).
- Papineni, Kishore et al. (2002). “BLEU : a method for automatic evaluation of machine translation”. In : *Proceedings of the 40th annual meeting on association for computational linguistics*. Association for Computational Linguistics, p. 311–318. URL : <http://dl.acm.org/www.snd11.arn.dz/citation.cfm?id=1073135> (visité le 30/12/2014) (cf. p. 2).
- Payne, Thomas (2006). *Exploring language structure : a student’s guide*. Cambridge University Press (cf. p. 2).
- Peccei, JS (1999). *2000. Pragmatics [M]* (cf. p. 3).
- Rabiner, Lawrence R. (1989). “A Tutorial on Hidden Markov Models and Selected Applications in Speech Recognition”. In : *Proceedings of the IEEE* 77.2, p. 257–286 (cf. p. 2).
- Raybaud, S., D. Langlois et K. Smali (2011). “‘This sentence is wrong.’ Detecting errors in machine-translated sentences.” In : *Machine Translation*, p. 1–34 (cf. p. 2).
- Roche, Emmanuel et Yves Schabes (1997). *Finite-state language processing*. MIT press (cf. p. 1).
- Saeed, John I (2003). “Semantics (Introducing Linguistics)”. In : *Semantics-introducing linguistics* (cf. p. 3).
- Salton, G. et M. J. McGill (1983). *Introduction to Modern Information Retrieval*. New York, NY, USA : McGraw-Hill (cf. p. 2).
- Staab, Steffen et Rudi Studer, édés. (2009). *Handbook on Ontologies (Second Edition)*. Berlin : Springer (cf. p. 1).
- Swan, Michael et Henry George Widdowson (2005). *Grammar*. Oxford University Press Oxford (cf. p. 3).
- Tallerman, Maggie (2014). *Understanding syntax*. Routledge (cf. p. 3).
- Tan, Pang-Ning, Michael Steinbach et Vipin Kumar (2006). *Introduction to Data Mining*. Boston (MA) : Pearson International Edition/ Addison Wesley (cf. p. 2).
- Touzet, Claude (1992). *Les réseaux de neurones artificiels, introduction au connexionnisme*. Collection de l’EERIE. EC2. HAL archive ouverte : [hal-01338010](https://hal.archives-ouvertes.fr/hal-01338010) (cf. p. 2).
- Wennerstrom, Ann (2001). *The music of everyday speech : Prosody and discourse analysis*. Oxford University Press (cf. p. 3).
- Yu, Alan CL (2007). *A Natural History of Infixation*. (Cf. p. 2).
- Zaki, M.J. et Wagner Meira Jr (2014). “Data Mining and Analysis : Fundamental Concepts and Algorithms”. In : (cf. p. 2).