

Reference list of lecture slides

This document lists the references of the lecture slides of the course "Common Sense Reasoning" published as OpenCourseWare by the Universidad Politécnica de Madrid (<http://ocw.upm.es/course>)

References

- Allen, J. F. (1983): "Maintaining knowledge about temporal intervals". Communications of the ACM. 26 (11): 832–843.
- Angeli, G., Manning, C. D. (2014): "NaturalLI: Natural logic inference for common sense reasoning". In Proceedings of the 2014 conference on empirical methods in natural language processing (EMNLP) (pp. 534-545).
- Bragaglia, S., Chesani, F., Mello, P., Montali, M., Torroni, P. (2012): "Reactive event calculus for monitoring global computing applications". In Logic Programs, Norms and Action (pp. 123-146). Springer, Berlin, Heidelberg.
- Bredeweg, B., Bouwer, A. J., Liem, J., Salles, P. (2006) "Curriculum for learning about QR modeling" The QRM Portal. <http://hcs.science.uva.nl/QRM/>
- Cambria, E., Rajagopal, D., Kwok, K., Sepulveda, J. (2015): "GECKA: game engine for commonsense knowledge acquisition". In The Twenty-Eighth International Flairs Conference.
- Cambria, E., Nguyen, T. V., Cheng, B., Kwok, K., Sepulveda, J. (2016): "GECKA3D: A 3D Game Engine for Commonsense Knowledge Acquisition". In The Twenty-Ninth International Flairs Conference.
- Cervesato, I., Franceschet, M., Montanari, A. (2000): "A guided tour through some extensions of the event calculus". Computational Intelligence, 16(2), 307-347.
- Chesani, F., Mello, P., Montali, M., Torroni, P. (2010): "A logic-based, reactive calculus of events". Fundamenta Informaticae, 105(1-2), 135-161.
- Chittaro, L., Montanari, A. (1996): "Efficient temporal reasoning in the cached event calculus". Computational Intelligence, 12(3), 359-382.
- Chklovski, T. (2003): "Learner: a system for acquiring commonsense knowledge by analogy". In Proceedings of the 2nd international conference on Knowledge capture (pp. 4-12). ACM.
- Cohn, A. G. (1995): "The challenge of qualitative spatial reasoning". ACM Computing Surveys, 27(3), 323-325.

- Cohn, A. G., Renz, J. (2008). Qualitative spatial representation and reasoning. In *Handbook of Knowledge Representation, Foundations of Artificial Intelligence*, chapter 13, pages 551–596. Elsevier, 2007.
- Condoravdi, C., Richardson, K., Sikka, V., Suenbuel, A., Waldinger, R. (2015): “Natural Language Access to Data: It Takes Common Sense!”. In 2015 AAAI Spring Symposium Series.
- Davis, E. (1990): “Representations of Commonsense Knowledge” Morgan Kaufmann.
- Davis, E. (2008): “Pouring liquids: A study in commonsense physical reasoning”, *Artificial Intelligence*.
- Davis, E. (2008): “Physical reasoning”. *Foundations of Artificial Intelligence*, 3, 597-620.
- Davis, E. (2012): “Why are computers so stupid and what can be done about it”. <http://www.pppl.gov/events/why-are-computers-so-stupid-and-what-can-be-done-about-it-prof-ernest-davis-computer-science>
- Davis, E., Marcus G. (2015): “Commonsense Reasoning and Commonsense Knowledge in Artificial Intelligence”. *Communications of the ACM*, Vol. 58 No. 9, Pages 92-103.
- Davis, E., Morgenstern, L. (2004): “Progress in formal commonsense reasoning”. Introduction to the Special Issue on Formalization of Common Sense. *Artificial Intelligence Journal* 153(1–2): 1–12.
- De Melo, G., Suchanek, F., Pease, A. (2008): “Integrating Yago into the Suggested Upper Merged Ontology”. In 20th IEEE International Conference on Tools with Artificial Intelligence (Vol. 1, pp. 190-193). IEEE.
- Dinakar, K., Jones, B., Havasi, C., Lieberman, H., Picard, R. (2012): “Common sense reasoning for detection, prevention, and mitigation of cyberbullying”. *ACM Transactions on Interactive Intelligent Systems (TiiS)*, 2(3), 18.
- Dong, X., Gabrilovich, E., Heitz, G., Horn, W., Lao, N., Murphy, K., et al. (2014): “Knowledge Vault: A web-scale approach to probabilistic knowledge fusion”. In Proceedings of the 20th ACM SIGKDD international conference on Knowledge discovery and data mining (pp. 601-610). ACM.
- Espinosa, J., Lieberman, H. (2005): “EventNet: inferring temporal relations between commonsense events”. In Mexican International Conference on Artificial Intelligence (pp. 61-69). Springer, Berlin, Heidelberg.
- Ferrucci, D., Brown, E., Chu-Carroll, J., Fan, J., Gondek, D., Kalyanpur, A. A., et al. (2010): “Building Watson: An overview of the DeepQA project”. *AI magazine*, 31(3), 59-79.
- Forbus, K.D. (2008): “Qualitative Modeling”. In F. v. Harmelen, V. Lifschitz and B. Porter (eds), *Handbook of Knowledge Representation* (Volume 3), pages 361- 393.

Forbus, K., Nielsen, P., Faltings, B. (1987): "Qualitative kinematics: A framework" Proceedings of IJCAI-87, Milan, Italy.

Galárraga L. (2014): "Rule Mining and applications in Social Data". International Workshop on Social Media and Culture 2014. Daejeon, Korea.

Galárraga, L., Teflioudi, C., Hose, K., Suchanek, F. (2013): "AMIE: association rule mining under incomplete evidence in ontological knowledge bases". In Proceedings of the 22nd international conference on World Wide Web (pp. 413-422). ACM.

Galárraga, L., Teflioudi, C., Hose, K., Suchanek, F. M. (2015): "Fast rule mining in ontological knowledge bases with AMIE+". The VLDB Journal—The International Journal on Very Large Data Bases, 24(6), 707-730.

Havasi, C., Speer, R., Pustejovsky, J., Lieberman, H. (2009): "Digital intuition: Applying common sense using dimensionality reduction". IEEE Intelligent systems, 24(4), 24-35.

Hayes, P. (1978): "The Naive Physics Manifesto". In: D. Michie (Ed.), Expert Systems in the Microelectronic Age. Edinburgh, Scotland: Edinburgh University Press, pp. 242-270

Hayes, P. J. (1985): "The second naive physics manifesto". In J. R., R. C. (Eds.), Formal theories of the commonsense world. Ablex.

Hobbs, J., Moore, R. (1985): "Formal Theories of the Commonsense World". Ablex Publishing Corporation.

Johnston, B. (2009): "Practical Artificial Commonsense". University of Technology, Sydney PhD thesis.

Kalyanpur, A., Boguraev, B. K., Patwardhan, S., Murdock, J. W., Lally, A., Welty, C., et al., (2012): "Structured data and inference in DeepQA". IBM Journal of Research and Development, 56(3.4), 10-1.

Lao, N. (2012): "Efficient random walk inference with knowledge bases". Doctoral dissertation, PhD Thesis. The Carnegie Mellon University.

Lao, N., Minkov, E., Cohen, W. (2015): "Learning relational features with backward random walks". In Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing (Volume 1: Long Papers) (pp. 666-675).

Lao, N., Mitchell, T., Cohen, W. W. (2011): "Random walk inference and learning in a large scale knowledge base". In Proceedings of the Conference on Empirical Methods in Natural Language Processing (pp. 529-539). Association for Computational Linguistics.

- Lee, C. H. J., Bonanni, L., Espinosa, J. H., Lieberman, H., Selker, T. (2006): "Augmenting kitchen appliances with a shared context using knowledge about daily events". In Proceedings of the 11th international conference on Intelligent user interfaces (pp. 348-350). ACM.
- Lenat, D. (1995): "CYC: A large-scale investment in knowledge infrastructure". Communications of the ACM, 38(11).
- Lenat, D., Guha, R. V (1990): "Building Large Knowledge Bases". Addison-Wesley, Reading, Mass., 1990.
- Levesque, H., Davis, E., Morgenstern, L. (2011): "The Winograd Schema challenge". AAAI Spring Symposium: Logical Formalizations of Commonsense Reasoning.
- Lieberman, H. (2004): "Common sense for interactive applications". MIT course.
- Lieberman, H., Espinosa J. (2007): "A goal-oriented interface to consumer electronics using planning and commonsense reasoning." Knowledge-Based Systems 20.6: 592-606.
- Lieberman, H., Liu, H., Singh, P., Barry, B. (2004): "Beating common sense into interactive applications". AI Magazine 25(4): 63-76. AAAI Press.
- Li, W., Allbeck, J. M. (2012): "Virtual humans: Evolving with common sense". In International Conference on Motion in Games (pp. 182-193). Springer, Berlin.
- Li, X., Taheri, A., Tu, L., Gimpel, K. (2016): "Commonsense knowledge base completion". In Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers) (pp. 1445-1455).
- Liu, H., Lieberman, H., Selker, T. (2003): "A model of textual affect sensing using real-world knowledge". In Proceedings of the 8th international conference on Intelligent user interfaces (pp. 125-132). ACM.
- Liu, H., Lieberman, H. Selker, T. (2006): "GOOSE: a goal-oriented search engine with commonsense." Adaptive Hypermedia and Adaptive Web-Based Systems. Springer Berlin Heidelberg.
- Liu, H., Singh P. (2004): "ConceptNet — A Practical Commonsense Reasoning Tool-Kit". BT Technology Journal, v.22 n.4, p.211-226.
- Malaviya, C., Bhagavatula, C., Bosselut, A., Choi Y (2019): Commonsense Knowledge Base Completion with structural and semantic context. ArXiv, abs/1910.02915v2.
- Matuszek, C., Witbrock, M., Cabral, J., DeOliveira, J. (2006): "An introduction to the syntax and content of Cyc". UMBC Computer Science and Electrical Engineering Department Collection.

- McCarthy, J. (1958): "Programs with common sense". Teddington Conference on the Mechanization of Thought Processes.
- McCarthy, J. (1980): "Circumscription—a form of non-monotonic reasoning". Artificial intelligence, 13(1-2), 27-39.
- Minsky, M. (2000): "Commonsense-based interfaces", Communications of the ACM 43(8): 67-73. ACM Press.
- Minsky, M. (2006): "The emotion machine". Simon & Schuster.
- Mitchell, T., Cohen, W., Hruschka, E., Talukdar, P., Yang, B., Betteridge, J., et al. (2015): "Never-ending learning". In Proceedings of the Conference on Artificial Intelligence (AAAI), 2015
- Mueller, E. (1998): "Natural language processing with ThoughtTreasure". New York: Signiform.
- Mueller, E. (2004): "Understanding script-based stories using commonsense reasoning." Cognitive Systems Research 5.4: 307-340.
- Mueller, E. (2006): "Commonsense Reasoning" Morgan Kaufmann.
- Mueller, E. (2014): "Commonsense reasoning: an event calculus based approach" (2nd Edition). Morgan Kaufmann.
- Murdock, J. W., Kalyanpur, A., Welty, C., Fan, J., Ferrucci, D. A., Gondek, D. C., et al. (2012): "Typing candidate answers using type coercion". IBM Journal of Research and Development, 56(3.4), 7-1.
- Nickel, M., Murphy, K., Tresp, V., Gabrilovich, E. (2016): "A review of relational machine learning for knowledge graphs". arXiv preprint arXiv:1503.00759
- Ovchinnikova, E. (2012): "Integration of world knowledge for natural language understanding" (Vol. 3). Springer Science & Business Media.
- Pease, A., Benzmüller, C. (2013): "Sigma: An integrated development environment for formal ontology". AI Communications, 26(1), 79-97.
- Pease, A., Niles, I., Li, J. (2002): "The suggested upper merged ontology: A large ontology for the semantic web and its applications". In Working notes of the AAAI-2002 workshop on ontologies and the semantic web (Vol. 28, pp. 7-10).
- Randell, D.A., Cui, Z, Cohn, A.G. (1992): "A spatial logic based on regions and connection". 3rd Int. Conf. on Knowledge Representation and Reasoning. Morgan Kaufmann. pp. 165–176.
- Renz, J., Nebel B. (2007): "Qualitative spatial reasoning using constraint calculi." Handbook of spatial logics. Springer, Dordrecht. 161-215.

- Richardson, M., Domingos, P. (2003): "Building large knowledge bases by mass collaboration". In Proceedings of the 2nd international conference on Knowledge capture (pp. 129-137). ACM.
- Roemmele, M., Bejan, C. A., Gordon, A. S. (2011): "Choice of plausible alternatives: An evaluation of commonsense causal reasoning". AAAI Spring Symposium: Logical Formalizations of Commonsense Reasoning.
- Shen, E., Lieberman, H., Lam F.. (2007): "What am I gonna wear?: scenario-oriented recommendation." Proceedings of the 12th international conference on Intelligent user interfaces. ACM.
- Singh, P., Lin, T., Mueller, E., Lim, G., Perkins, T., Zhu W.L. (2002): "Open Mind Common Sense: Knowledge acquisition from the general public". Proceedings of the First International Conference on Ontologies, Databases, and Applications of Semantics for Large Scale Information Systems. Irvine, CA.
- Singh, P., Williams, W. (2003): "LifeNet: a propositional model of ordinary human activity". In Proceedings of the Workshop on Distributed and Collaborative Knowledge Capture (DC-KCAP) at KCAP (Vol. 2003, No. 7).
- Singh, P., Barry, B., Liu, H. (2004): "Teaching machines about everyday life". BT Technology Journal, 22(4):227-240.
- Smedslund, J. (1997): "The structure of psychological common sense". Lawrence Erlbaum Associates.
- Speer R., Havasi, C., (2012): "Representing General Relational Knowledge in ConceptNet 5". International Conference on Language Resources and Evaluation (LREC'12).
- Speer, R., Chin, J., Havasi, C. (2017): "ConceptNet 5.5: An open multilingual graph of general knowledge". In Thirty-First AAAI Conference on Artificial Intelligence.
- Speer, R., Havasi, C., Lieberman, H. (2008): "AnalogySpace: Reducing the dimensionality of common sense knowledge". In Proceedings of AAAI.
- Struss, P. (1997): "Model-based and qualitative reasoning: An introduction". Annals of Mathematics and Artificial Intelligence, 19(3-4), 355-381.
- Strzalkowski, T., Harabagiu, S. (Eds.). (2006): "Advances in open domain question answering" (Vol. 32). Springer Science & Business Media.
- Suchanek, F. M., Kasneci, G., Weikum, G. (2007): "Yago: a core of semantic knowledge". In Proceedings of the 16th international conference on World Wide Web (pp. 697-706). ACM.
- Weld, D., de Kleer, J. (1990): "Readings in Qualitative Reasoning about Physical Systems". Morgan Kaufmann.