

A SHORT BIBLIOGRAPHY ON BELIEF REVISION AND RELATED TOPICS

edited by
Fabio Paglieri

Foreword: this bibliography is constantly under construction. Notification of works not included in the list is encouraged. Comments, suggestions and criticisms are also welcome. Please refer to paglieri@media.unisi.it

- Alchourrón, C., Gärdenfors, P., Makinson, D. (1985). "On the logic of theory change: partial meet contraction and revision functions". *Journal of Symbolic Logic* 50, 510-530.
- Alechina, N., Logan, B. (2002). "Ascribing beliefs to resource bounded agents". In: *Proceedings of AAMAS'02*.
- Bacchus, F. (1990). *Representing and reasoning with probabilistic knowledge: a logical approach to probabilities*. The MIT Press: Cambridge (MA).
- Bacon, J. (1975). "Belief as relative knowledge". In: Anderson, A. R., Marcus, R. B., Martin, R. M. (eds.), *The logical enterprise*, Yale University Press, New York-London, pp. 189-210.
- Baltag, A. (2002). "A logic for suspicious players: epistemic actions and belief updates in games". *Bulletin of Economic Research* 54, pp. 1-45.
- Bell, J. (1995). "Changing attitudes". In: Wooldridge, M. J., Jennings, N. R. (eds.), *Intelligent agents: ECAI-94 workshop on agent theories, architectures, and languages*, Springer-Verlag, Berlin, pp. 40-55.
- van Benthem, J. (1996). *Exploring logical dynamics*. CSLI Publications: Stanford, CA.
- Boutilier, C. (1996). "Iterated revision and minimal change of conditional beliefs". *Journal of Philosophical Logic* 25, pp. 262-305.
- Boutilier, C. (1998). "A unified model of qualitative belief change: a dynamical systems perspective". *Artificial Intelligence* 98, pp. 281-316.
- Boutilier, C., Friedman, N., Halpern, J. Y. (1998). "Belief revision with unreliable observations". In: *Proceedings of the fifteenth national conference on Artificial Intelligence (AAAI'96)*, pp. 127-134.
- Brewka, G. (ed.) (1996). *Principles of knowledge representation*. CSLI Publications: Stanford, CA.
- Broda, K. B., d'Avila Garcez, A., Gabbay, D. (2002). *Neural-symbolic learning systems*. Springer: London.
- Castelfranchi, C. (1996). "Reasons: belief support and goal dynamics". *Mathware & Soft Computing* 3, pp. 233-247.
- Castelfranchi, C. (1997). "Representation and integration of multiple knowledge sources: issues and questions". In: Cantoni, Di Gesu', Setti, Tegolo (eds.), *Human & Machine Perception: Information Fusion*, Plenum Press.

- Castelfranchi, C. (1998). "Modeling social action for AI agents". *Artificial Intelligence* 103, pp. 157-182.
- Castelfranchi, C. (2003). "Formalising the informal? Dynamic social order, bottom-up social control, and spontaneous normative relations". *Journal of Applied Logic* 1, pp. 47-92.
- Cherniak, C. (1986). *Minimal rationality*. The MIT Press: Cambridge (MA).
- Cohen, P. R., Levesque, H. J. (1990). "Intention is choice with commitment". *Artificial Intelligence* 42, pp. 213-261.
- Conte, R., Castelfranchi, C. (1995). *Cognitive and social action*. UCL Press: London.
- Conte, R., Dellarocas, C. (2001). *Social order in multiagent system*. Kluwer Academic Publishers: Dordrecht.
- Conte, R., Hegselman, R., Terna, P. (1997). *Simulating social phenomena*. Springer: Berlin.
- Conte, R., Paolucci, M. (2002). *Reputation in artificial societies: social beliefs for social order*. Kluwer: Boston (MA).
- Darwiche, A., Pearl, J. (1997). "On the logic of iterated belief revision". *Artificial Intelligence* 89, pp. 1-29.
- van Ditmarsch, H. (2003). "Prolegomena to dynamic logics for belief revision". On line manuscript, <http://www.cs.otago.ac.nz/staffpriv/hans/prolegomena.pdf> (consulted: December 2003).
- Doyle, J. (1991). "Rational belief revision". In: J. Allen, R. Fikes, E. Sandewall (eds.), *Principles of knowledge representation and reasoning: proceedings of the second international conference (KR91)*, Morgan Kaufmann Publishers, San Mateo (CA), pp. 163-174.
- Doyle, J. (1992). "Reason maintenance and belief revision: foundations vs. coherence theories". In: P. Gärdenfors (ed.), *Belief revision*, Cambridge University Press, Cambridge, pp. 29-51.
- Doyle, J., Wellman, M. P. (1991). "Impediments to universal preference-based default theories". *Artificial Intelligence* 49, pp. 97-128.
- Dragoni, A. F., Giorgini, P. (2003). "Distributed belief revision". *Autonomous Agents and Multi-Agent Systems* 6, pp. 115-143.
- Dragoni, A., Mascaretti, F., Puliti, P. (1995). "A generalized approach to consistency-based belief-revision". In: Gori, M., Soda, G. (eds.), *Topics in Artificial Intelligence*, Springer-Verlag, Berlin.
- Dunin-Keplicz, B., Verbrugge, R. (eds.) (2003). *FAMAS'03 - Formal approaches to multi-agent systems*. Proceedings of an international workshop at ETAPS 2003, April 5-13, Warsaw, Poland.
- van Eijk, R. M., de Boer, F. S., van der Hoek, W., Meyer, J.-J. Ch. (1998). "Information-passing and belief revision in multi-agent systems". In: Müller, J. P., Rao, A. S., Singh, M. S. (eds.), *Intelligent agents V: agent theories, architectures, and languages*, Springer-Verlag, Berlin, pp. 29-45.
- Fagin, R., Halpern, J. Y. (1988). "Belief, awareness, and limited reasoning". *Artificial Intelligence* 34, pp. 39-76.
- Fagin, R., Halpern, J. Y. (1991). "Uncertainty, belief, and probability". *Computational Intelligence* 6, pp. 160-173.

- Fagin, R., Halpern, J. Y. (1994). "Reasoning about knowledge and probability". *Journal of the ACM* 41, pp. 340-367.
- Fagin, R., Halpern, J. Y., Moses, Y., Vardi, M. Y. (1995). *Reasoning about knowledge*. The MIT Press: Cambridge, MA.
- Falcone, R., Pezzulo, G., Castelfranchi, C. (2003). "A fuzzy approach to a belief-based trust computation". In: Falcone, R., Barber, S., Korba, L., Singh, M. (eds.), *Trust, reputation, and security: theories and practice*, Springer-Verlag, Berlin, pp. 73-86.
- van Frassen, B. C. (1995). "Fine-grained opinion, probability, and the logic of full belief". *Journal of Philosophical Logic* 24, pp. 349-377.
- Friedman, N., Halpern, J. Y. (1997). "Modeling beliefs in dynamic systems. Part I: foundations". *Artificial Intelligence* 95, pp. 257-316.
- Friedman, N., Halpern, J. Y. (1999a). "Modeling beliefs in dynamic systems. Part II: revision and update". *Journal of AI Research* 10, pp. 117-167.
- Friedman, N., Halpern, J. Y. (1999b). "Belief revision: a critique". *Journal of Logic, Language and Information* 8, pp. 401-420.
- Fullam, K., (2003). *An expressive belief revision framework based on information valuation*. Master's thesis, University of Texas at Austin.
- Galliers, J. R. (1992). "Autonomous belief revision and communication". In: P. Gärdenfors (ed.), *Belief revision*, Cambridge University Press, Cambridge (MA), pp. 220-246.
- Gärdenfors, P. (1988). *Knowledge in flux: modeling the dynamics of epistemic states*. The MIT Press: Cambridge (MA).
- Gärdenfors, P. (ed.) (1992). *Belief revision*. Cambridge University Press: Cambridge (MA).
- Georgeff, M. P., Ingrand, F. F. (1989). "Decision-making in an embedded reasoning system". In: *Proceedings of IJCAI-89*, pp. 972-978.
- Georgeff, M., et al. (1998). "The Belief-Desire-Intention model of agency". In: Müller, J. P., Rao, A. S., Singh, M. S. (eds.), *Intelligent agents V: agent theories, architectures, and languages*, Springer-Verlag, Berlin, pp. 1-10.
- Gerbrandy, J., Groeneveld, W. (1997). "Reasoning about information change". *Journal of Logic, Language, and Information* 6, pp. 147-196.
- Golszmidt, M., Pearl, J. (1996). "Qualitative probabilities for default reasoning, belief revision, and casual modeling". *Artificial Intelligence* 84, pp. 57-112.
- Gomolinska, A., Pearce, D. (1999). "Disbelief change". In: B. Hansson, S. Halldén, N.-E. Sahlin, W. Rabinowicz (eds.), *Spinning ideas: internet festschrift for Peter Gärdenfors*, <http://www.lucs.lu.se/spinning/>. Consulted on December, 2003.
- Halpern, J. Y. (1991). "The relation between knowledge, belief, and certainty". *Annals of Mathematics and AI* 4, 301-322.
- Hansson, S. (1992). "Reversing the Levi identity". *Journal of Philosophical Logic* 22, pp. 637-639.
- Hansson, S. (1999). "A survey on non-prioritized belief revision". *Erkenntnis* 50, pp. 413-427.

- Harman, G. (1986). *Changes in view: principles of reasoning*. The MIT Press: Cambridge (MA).
- Hintikka, J. (1962). *Knowledge and belief: an introduction to the logic of the two notions*. Cornell University Press: Ithaca-London.
- Katsuno, H., Mendelzon, A. O. (1991). "On the difference between updating a knowledge base and revising it". In: J. Allen, R. Fikes, E. Sandewall (eds.), *Principles of knowledge representation and reasoning: proceedings of the second international conference (KR91)*, Morgan Kaufmann Publishers, San Mateo (CA), pp. 387-394.
- Konolige, K. (1986). *A deduction model of belief*. Morgan Kaufmann Publishers: Los Altos, CA.
- Konolige, K., Pollack, M. E. (1989). "Ascribing plans to agents". In: *Proceedings of IJCAI-89*, pp. 924-930.
- Kooi, B. P. (2003a). *Knowledge, chance, and change*. ILLC dissertation series DS-2003-01: Amsterdam.
- Kooi, B. P. (2003b). "Probabilistic dynamic epistemic logic". *Journal of Logic, Language and Information* 12, pp. 381-408.
- Lakemayer, G. (1991). "On the relation between explicit and implicit belief". In: J. Allen, R. Fikes, E. Sandewall (eds.), *Principles of knowledge representation and reasoning: proceedings of the second international conference (KR91)*, Morgan Kaufmann Publishers, San Mateo (CA), pp. 368-375.
- Lehmann, D. (1995). "Belief revision, revised". In: *Proceedings of the fourteenth International Joint Conference on Artificial Intelligence (IJCAI'95)*, pp. 1534-1540.
- Levesque, H. (1984). "A logic of implicit and explicit belief". Technical report n. 32, Fairchild Laboratory for AI Research: Palo Alto (CA).
- Levi, I. (1967). *Gambling with true*. Alfred A. Knopf: New York.
- Levi, I. (1980). *The enterprise of knowledge*. The MIT Press: Cambridge (MA).
- Levi, I. (1991). *The fixation of belief and its undoing*. Cambridge University Press: Cambridge (MA).
- Liberatore, P. (2000). "The complexity of belief update". *Artificial Intelligence* 119, pp. 141-190.
- Malsch, T. (2001). "Naming the unnamable: socionics or the sociological turn of/to Distributed Artificial Intelligence". *Autonomous Agents and Multi-Agent Systems* 4, pp. 155-186.
- Meyer, J.-J. C., van der Hoek, W. (1995). *Epistemic logic for AI and computer science*. Cambridge University Press: Cambridge, UK.
- Nebel, B. (1989). "A knowledge level analysis of belief revision". In: R. J. Brachman, H. J. Levesque, R. Reiter (eds.), *Proceedings of the first international conference on principles of knowledge representation and reasoning*, Morgan Kaufmann Publishers, San Mateo (CA), pp. 301-311.
- Nebel, B. (1990). *Representations and reasoning in hybrid representation systems*. Springer-Verlag: Berlin.

- Paglieri, F. (2003). "Belief revision: cognitive constraints for modeling more realistic agents". On line manuscript, <http://www.media.unisi.it/cirg/fp/illc03.pdf> (consulted: January 2004).
- Paglieri, F. (2004). "Belief revision for cognitive agents: individual variation in multi agent systems". On line manuscript, <http://www.media.unisi.it/cirg/fp/aamas04.pdf> (consulted: January 2004).
- Pauly, M. (2001). *Logic for social software*. ILLC dissertation series DS-2001-10: Amsterdam.
- Pollock, J. L., Gillies, A. S. (2000). "Belief revision and epistemology". *Synthese* 122, pp. 69-92.
- Rao, A. S., Georgeff, M. (1991). "Modeling rational agents within a BDI-architecture". In: J. Allen, R. Fikes, E. Sandewall (eds.), *Principles of knowledge representation and reasoning: proceedings of the second international conference (KR91)*, Morgan Kaufmann Publishers, San Mateo (CA), pp. 463-484.
- Reiter, R. (2001). *Knowledge in action: logical foundations for specifying and implementing dynamical systems*. The MIT Press: Cambridge (MA).
- Rott, H. (1999). "Two dogmas of belief revision". *Journal of Philosophy* 97, pp. 503-522.
- Rott, H. (2001). *Change, Choice and Inference: A Study of Belief Revision and Nonmonotonic Reasoning*. Oxford University Press: Oxford.
- Rott, H., Williams, M.-A. (eds.) (2001). *Frontiers in Belief Revision*. Kluwer Academic Publishers: Dordrecht.
- Seegerberg, K. (1999). "Two traditions in the logic of belief: bringing them together". In: Ohlbach, H. J., Reyle, U. (eds.), *Logic, Language, and Reasoning*, Kluwer Academic Publishers, Dordrecht, pp. 135-147.
- Shafer, G. (1976). *A mathematical theory of evidence*. Princeton University Press: Princeton (NJ).
- Sichman, J. S., Conte, R., Gilbert, N. (eds.) (1998). *Multi-agent systems and agent-based simulation*. Springer-Verlag: Berlin.
- Singh, M. P. (1994). *Multiagent systems: a theoretical framework for intentions, know-how, and communications*. Springer-Verlag: Berlin.
- Singh, M. P., Asher, N. M. (1993). "A logic of intentions and beliefs". *Journal of Philosophical Logic* 22, pp. 513-544.
- Spohn, W. (1987). "Ordinal conditional functions: a dynamic theory of epistemic states". In: Harper, W. L., Skyrms, B. (eds.), *Causation in decision, belief change and statistics*, vol. 2, D. Reidel Publishing Company, Dordrecht, pp. 105-134.
- Spohn, W. (1999). "Ranking functions, AGM style". In: B. Hansson, S. Halldén, N.-E. Sahlin, W. Rabinowicz (eds.), *Spinning ideas: internet festschrift for Peter Gärdenfors*, <http://www.lucs.lu.se/spinning/>. Consulted on December, 2003.
- Tamminga, A. (2001a). *Belief dynamics: (epistemo)logical investigations*. ILLC dissertation series DS-2001-08: Amsterdam.
- Tamminga, A. (2001b). "Expansion and contraction of finite states". *Studia Logica* 68, pp. 1-16.

- Vickers, J. M. (1976). *Belief and probability*. D. Reidel Publishing Company: Dordrecht.
- Wassermann, R. (2000). *Resource-bounded belief revision*. ILLC dissertation series DS-2000-01: Amsterdam.
- Winslett, M. (1990). *Updating logical databases*. Cambridge University Press: Cambridge (MA).
- Wooldridge, M. (2000). *Reasoning about rational agents*. The MIT Press: Cambridge, MA.
- Wooldridge, M. J. (2002). *An introduction to multiagent systems*. John Wiley & Sons: Chichester, UK.
- Wooldridge, M. J., Jennings, N. R. (1995). "Agent theories, architectures, and languages: a survey". In: Wooldridge, M. J., Jennings, N. R. (eds.), *Intelligent agents: ECAI-94 workshop on agent theories, architectures, and languages*, Springer-Verlag, Berlin, pp. 1-39.
- Wooldridge, M., Parsons, S. (1998). "Intention reconsideration reconsidered". In: Müller, J. P., Rao, A. S., Singh, M. S. (eds.), *Intelligent agents V: agent theories, architectures, and languages*, Springer-Verlag, Berlin, pp. 63-79.