

# Bibliography

The following abbreviations are used for frequently cited conferences and journals:

<b>AAAI</b>	Proceedings of the AAAI Conference on Artificial Intelligence
<b>AAMAS</b>	Proceedings of the International Conference on Autonomous Agents and Multi-agent Systems
<b>ACL</b>	Proceedings of the Annual Meeting of the Association for Computational Linguistics
<b>AIJ</b>	Artificial Intelligence
<b>AIMag</b>	AI Magazine
<b>AIPS</b>	Proceedings of the International Conference on AI Planning Systems
<b>BBS</b>	Behavioral and Brain Sciences
<b>CACM</b>	Communications of the Association for Computing Machinery
<b>COGSCI</b>	Proceedings of the Annual Conference of the Cognitive Science Society
<b>COLING</b>	Proceedings of the International Conference on Computational Linguistics
<b>COLT</b>	Proceedings of the Annual ACM Workshop on Computational Learning Theory
<b>CP</b>	Proceedings of the International Conference on Principles and Practice of Constraint Programming
<b>CVPR</b>	Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition
<b>EC</b>	Proceedings of the ACM Conference on Electronic Commerce
<b>ECAI</b>	Proceedings of the European Conference on Artificial Intelligence
<b>ECCV</b>	Proceedings of the European Conference on Computer Vision
<b>ECML</b>	Proceedings of the The European Conference on Machine Learning
<b>ECP</b>	Proceedings of the European Conference on Planning
<b>FGCS</b>	Proceedings of the International Conference on Fifth Generation Computer Systems
<b>FOCS</b>	Proceedings of the Annual Symposium on Foundations of Computer Science
<b>ICAPS</b>	Proceedings of the International Conference on Automated Planning and Scheduling
<b>ICASSP</b>	Proceedings of the International Conference on Acoustics, Speech, and Signal Processing
<b>ICCV</b>	Proceedings of the International Conference on Computer Vision
<b>ICLP</b>	Proceedings of the International Conference on Logic Programming
<b>ICML</b>	Proceedings of the International Conference on Machine Learning
<b>ICPR</b>	Proceedings of the International Conference on Pattern Recognition
<b>ICRA</b>	Proceedings of the IEEE International Conference on Robotics and Automation
<b>ICSLP</b>	Proceedings of the International Conference on Speech and Language Processing
<b>IJAR</b>	International Journal of Approximate Reasoning
<b>IJCAI</b>	Proceedings of the International Joint Conference on Artificial Intelligence
<b>IJCNN</b>	Proceedings of the International Joint Conference on Neural Networks
<b>IJCV</b>	International Journal of Computer Vision
<b>ILP</b>	Proceedings of the International Workshop on Inductive Logic Programming
<b>ISMIS</b>	Proceedings of the International Symposium on Methodologies for Intelligent Systems
<b>ISRR</b>	Proceedings of the International Symposium on Robotics Research
<b>JACM</b>	Journal of the Association for Computing Machinery
<b>JAIR</b>	Journal of Artificial Intelligence Research
<b>JAR</b>	Journal of Automated Reasoning
<b>JASA</b>	Journal of the American Statistical Association
<b>JMLR</b>	Journal of Machine Learning Research
<b>JSL</b>	Journal of Symbolic Logic
<b>KDD</b>	Proceedings of the International Conference on Knowledge Discovery and Data Mining
<b>KR</b>	Proceedings of the International Conference on Principles of Knowledge Representation and Reasoning
<b>LICS</b>	Proceedings of the IEEE Symposium on Logic in Computer Science
<b>NIPS</b>	Advances in Neural Information Processing Systems
<b>PAMI</b>	IEEE Transactions on Pattern Analysis and Machine Intelligence
<b>PNAS</b>	Proceedings of the National Academy of Sciences of the United States of America
<b>PODS</b>	Proceedings of the ACM International Symposium on Principles of Database Systems
<b>SIGIR</b>	Proceedings of the Special Interest Group on Information Retrieval
<b>SIGMOD</b>	Proceedings of the ACM SIGMOD International Conference on Management of Data
<b>SODA</b>	Proceedings of the Annual ACM-SIAM Symposium on Discrete Algorithms
<b>STOC</b>	Proceedings of the Annual ACM Symposium on Theory of Computing
<b>TARK</b>	Proceedings of the Conference on Theoretical Aspects of Reasoning about Knowledge
<b>UAI</b>	Proceedings of the Conference on Uncertainty in Artificial Intelligence

- Aarup**, M., Arentoft, M. M., Parrod, Y., Stader, J., and Stokes, I. (1994). OPTIMUM-AIV: A knowledge-based planning and scheduling system for spacecraft AIV. In Fox, M. and Zweben, M. (Eds.), *Knowledge Based Scheduling*. Morgan Kaufmann.
- Abney**, S. (2007). *Semisupervised Learning for Computational Linguistics*. CRC Press.
- Abramson**, B. and Yung, M. (1989). Divide and conquer under global constraints: A solution to the N-queens problem. *J. Parallel and Distributed Computing*, 6(3), 649–662.
- Achlioptas**, D. (2009). Random satisfiability. In Biere, A., Heule, M., van Maaren, H., and Walsh, T. (Eds.), *Handbook of Satisfiability*. IOS Press.
- Achlioptas**, D., Beame, P., and Molloy, M. (2004). Exponential bounds for DPLL below the satisfiability threshold. In *SODA-04*.
- Achlioptas**, D., Naor, A., and Peres, Y. (2007). On the maximum satisfiability of random formulas. *JACM*, 54(2).
- Achlioptas**, D. and Peres, Y. (2004). The threshold for random  $k$ -SAT is  $2k \log 2 - o(k)$ . *J. American Mathematical Society*, 17(4), 947–973.
- Ackley**, D. H. and Littman, M. L. (1991). Interactions between learning and evolution. In Langton, C., Taylor, C., Farmer, J. D., and Ramussen, S. (Eds.), *Artificial Life II*, pp. 487–509. Addison-Wesley.
- Adelson-Velsky**, G. M., Arlarzarov, V. L., Bitman, A. R., Zhivotovsky, A. A., and Uskov, A. V. (1970). Programming a computer to play chess. *Russian Mathematical Surveys*, 25, 221–262.
- Adida**, B. and Birbeck, M. (2008). RDFa primer. Tech. rep., W3C.
- Agerbeck**, C. and Hansen, M. O. (2008). A multi-agent approach to solving NP-complete problems. Master's thesis, Technical Univ. of Denmark.
- Aggarwal**, G., Goel, A., and Motwani, R. (2006). Truthful auctions for pricing search keywords. In *EC-06*, pp. 1–7.
- Agichtein**, E. and Gravano, L. (2003). Querying text databases for efficient information extraction. In *Proc. IEEE Conference on Data Engineering*.
- Agmon**, S. (1954). The relaxation method for linear inequalities. *Canadian Journal of Mathematics*, 6(3), 382–392.
- Agre**, P. E. and Chapman, D. (1987). Pengi: an implementation of a theory of activity. In *IJCAI-87*, pp. 268–272.
- Aho**, A. V., Hopcroft, J., and Ullman, J. D. (1974). *The Design and Analysis of Computer Algorithms*. Addison-Wesley.
- Aizerman**, M., Braverman, E., and Rozonoer, L. (1964). Theoretical foundations of the potential function method in pattern recognition learning. *Automation and Remote Control*, 25, 821–837.
- Al-Chang**, M., Bresina, J., Charest, L., Chase, A., Hsu, J., Jonsson, A., Kanefsky, B., Morris, P., Rajan, K., Yglesias, J., Chafin, B., Dias, W., and Maldague, P. (2004). MAPGEN: Mixed-Initiative planning and scheduling for the Mars Exploration Rover mission. *IEEE Intelligent Systems*, 19(1), 8–12.
- Albus**, J. S. (1975). A new approach to manipulator control: The cerebellar model articulation controller (CMAC). *J. Dynamic Systems, Measurement, and Control*, 97, 270–277.
- Aldous**, D. and Vazirani, U. (1994). “Go with the winners” algorithms. In *FOCS-94*, pp. 492–501.
- Alekhovich**, M., Hirsch, E. A., and Itsykson, D. (2005). Exponential lower bounds for the running time of DPLL algorithms on satisfiable formulas. *JAR*, 35(1–3), 51–72.
- Allais**, M. (1953). Le comportement de l’homme rationnel devant le risque: critique des postulats et axiomes de l’école Américaine. *Econometrica*, 21, 503–546.
- Allen**, J. F. (1983). Maintaining knowledge about temporal intervals. *CACM*, 26(11), 832–843.
- Allen**, J. F. (1984). Towards a general theory of action and time. *AIJ*, 23, 123–154.
- Allen**, J. F. (1991). Time and time again: The many ways to represent time. *Int. J. Intelligent Systems*, 6, 341–355.
- Allen**, J. F., Hendler, J., and Tate, A. (Eds.). (1990). *Readings in Planning*. Morgan Kaufmann.
- Allis**, L. (1988). A knowledge-based approach to connect four. The game is solved: White wins. Master’s thesis, Vrije Univ., Amsterdam.
- Almuallim**, H. and Dietterich, T. (1991). Learning with many irrelevant features. In *AAAI-91*, Vol. 2, pp. 547–552.
- ALPAC** (1966). Language and machines: Computers in translation and linguistics. Tech. rep. 1416, The Automatic Language Processing Advisory Committee of the National Academy of Sciences.
- Alterman**, R. (1988). Adaptive planning. *Cognitive Science*, 12, 393–422.
- Amarel**, S. (1967). An approach to heuristic problem-solving and theorem proving in the propositional calculus. In Hart, J. and Takasu, S. (Eds.), *Systems and Computer Science*. University of Toronto Press.
- Amarel**, S. (1968). On representations of problems of reasoning about actions. In Michie, D. (Ed.), *Machine Intelligence 3*, Vol. 3, pp. 131–171. Elsevier/North-Holland.
- Amir**, E. and Russell, S. J. (2003). Logical filtering. In *IJCAI-03*.
- Amit**, D., Gutfreund, H., and Sompolinsky, H. (1985). Spin-glass models of neural networks. *Physical Review*, A 32, 1007–1018.
- Andersen**, S. K., Olesen, K. G., Jensen, F. V., and Jensen, F. (1989). HUGIN—A shell for building Bayesian belief universes for expert systems. In *IJCAI-89*, Vol. 2, pp. 1080–1085.
- Anderson**, J. R. (1980). *Cognitive Psychology and Its Implications*. W. H. Freeman.
- Anderson**, J. R. (1983). *The Architecture of Cognition*. Harvard University Press.
- Andoni**, A. and Indyk, P. (2006). Near-optimal hashing algorithms for approximate nearest neighbor in high dimensions. In *FOCS-06*.
- Andre**, D. and Russell, S. J. (2002). State abstraction for programmable reinforcement learning agents. In *AAAI-02*, pp. 119–125.
- Anthony**, M. and Bartlett, P. (1999). *Neural Network Learning: Theoretical Foundations*. Cambridge University Press.
- Aoki**, M. (1965). Optimal control of partially observable Markov systems. *J. Franklin Institute*, 280(5), 367–386.
- Appel**, K. and Haken, W. (1977). Every planar map is four colorable: Part I: Discharging. *Illinois J. Math.*, 21, 429–490.
- Appelt**, D. (1999). Introduction to information extraction. *CACM*, 12(3), 161–172.
- Apt**, K. R. (1999). The essence of constraint propagation. *Theoretical Computer Science*, 221(1–2), 179–210.
- Apt**, K. R. (2003). *Principles of Constraint Programming*. Cambridge University Press.
- Apté**, C., Damerau, F., and Weiss, S. (1994). Automated learning of decision rules for text categorization. *ACM Transactions on Information Systems*, 12, 233–251.
- Arbuthnot**, J. (1692). *Of the Laws of Chance*. Motte, London. Translation into English, with additions, of Huygens (1657).
- Archibald**, C., Altman, A., and Shoham, Y. (2009). Analysis of a winning computational billiards player. In *IJCAI-09*.
- Ariely**, D. (2009). *Predictably Irrational* (Revised edition). Harper.
- Arkin**, R. (1998). *Behavior-Based Robotics*. MIT Press.
- Armando**, A., Carbone, R., Compagna, L., Cuelar, J., and Tobarra, L. (2008). Formal analysis of SAML 2.0 web browser single sign-on: Breaking the SAML-based single sign-on for google apps. In *FMSE ’08: Proc. 6th ACM workshop on Formal methods in security engineering*, pp. 1–10.
- Arnauld**, A. (1662). *La logique, ou l’art de penser*. Chez Charles Savreux, au pied de la Tour de Notre Dame, Paris.
- Arora**, S. (1998). Polynomial time approximation schemes for Euclidean traveling salesman and other geometric problems. *JACM*, 45(5), 753–782.
- Arunachalam**, R. and Sadeh, N. M. (2005). The supply chain trading agent competition. *Electronic Commerce Research and Applications*, 5(6), 66–84.
- Ashby**, W. R. (1940). Adaptiveness and equilibrium. *J. Mental Science*, 86, 478–483.
- Ashby**, W. R. (1948). Design for a brain. *Electronic Engineering*, December, 379–383.
- Ashby**, W. R. (1952). *Design for a Brain*. Wiley.
- Asimov**, I. (1942). Runaround. *Astounding Science Fiction*, March.
- Asimov**, I. (1950). *I, Robot*. Doubleday.
- Astrom**, K. J. (1965). Optimal control of Markov decision processes with incomplete state estimation. *J. Math. Anal. Applic.*, 10, 174–205.
- Audi**, R. (Ed.). (1999). *The Cambridge Dictionary of Philosophy*. Cambridge University Press.
- Axelrod**, R. (1985). *The Evolution of Cooperation*. Basic Books.
- Baader**, F., Calvanese, D., McGuinness, D., Nardi, D., and Patel-Schneider, P. (2007). *The Description Logic Handbook* (2nd edition). Cambridge University Press.
- Baader**, F. and Snyder, W. (2001). Unification theory. In Robinson, J. and Voronkov, A. (Eds.), *Handbook of Automated Reasoning*, pp. 447–533. Elsevier.
- Bacchus**, F. (1990). *Representing and Reasoning with Probabilistic Knowledge*. MIT Press.
- Bacchus**, F. and Grove, A. (1995). Graphical models for preference and utility. In *UAI-95*, pp. 3–10.
- Bacchus**, F. and Grove, A. (1996). Utility independence in a qualitative decision theory. In *KR-96*, pp. 542–552.

- Bacchus, F., Grove, A., Halpern, J. Y., and Koller, D.** (1992). From statistics to beliefs. In *AAAI-92*, pp. 602–608.
- Bacchus, F. and van Beek, P.** (1998). On the conversion between non-binary and binary constraint satisfaction problems. In *AAAI-98*, pp. 311–318.
- Bacchus, F. and van Run, P.** (1995). Dynamic variable ordering in CSPs. In *CP-95*, pp. 258–275.
- Bachmann, P. G. H.** (1894). *Die analytische Zahlen-theorie*. B. G. Teubner, Leipzig.
- Backus, J. W.** (1996). Transcript of question and answer session. In Wexelblat, R. L. (Ed.), *History of Programming Languages*, p. 162. Academic Press.
- Bagnell, J. A. and Schneider, J.** (2001). Autonomous helicopter control using reinforcement learning policy search methods. In *ICRA-01*.
- Baker, J.** (1975). The Dragon system—An overview. *IEEE Transactions on Acoustics; Speech; and Signal Processing*, 23, 24–29.
- Baker, J.** (1979). Trainable grammars for speech recognition. In *Speech Communication Papers for the 97th Meeting of the Acoustical Society of America*, pp. 547–550.
- Baldi, P., Chauvin, Y., Hunkapiller, T., and McClure, M.** (1994). Hidden Markov models of biological primary sequence information. *PNAS*, 91(3), 1059–1063.
- Baldwin, J. M.** (1896). A new factor in evolution. *American Naturalist*, 30, 441–451. Continued on pages 536–553.
- Ballard, B. W.** (1983). The \*-minimax search procedure for trees containing chance nodes. *AIJ*, 21(3), 327–350.
- Baluja, S.** (1997). Genetic algorithms and explicit search statistics. In Mozer, M. C., Jordan, M. I., and Petsche, T. (Eds.), *NIPS 9*, pp. 319–325. MIT Press.
- Bancilhon, F., Maier, D., Sagiv, Y., and Ullman, J. D.** (1986). Magic sets and other strange ways to implement logic programs. In *PODS-86*, pp. 1–16.
- Banko, M. and Brill, E.** (2001). Scaling to very very large corpora for natural language disambiguation. In *ACL-01*, pp. 26–33.
- Banko, M., Brill, E., Dumais, S. T., and Lin, J.** (2002). Askmsr: Question answering using the worldwide web. In *Proc. AAAI Spring Symposium on Mining Answers from Texts and Knowledge Bases*, pp. 7–9.
- Banko, M., Cafarella, M. J., Soderland, S., Broadhead, M., and Etzioni, O.** (2007). Open information extraction from the web. In *IJCAI-07*.
- Banko, M. and Etzioni, O.** (2008). The tradeoffs between open and traditional relation extraction. In *ACL-08*, pp. 28–36.
- Bar-Hillel, Y.** (1954). Indexical expressions. *Mind*, 63, 359–379.
- Bar-Hillel, Y.** (1960). The present status of automatic translation of languages. In Alt, F. L. (Ed.), *Advances in Computers*, Vol. 1, pp. 91–163. Academic Press.
- Bar-Shalom, Y.** (Ed.). (1992). *Multitarget-multisensor tracking: Advanced applications*. Artech House.
- Bar-Shalom, Y. and Fortmann, T. E.** (1988). *Tracking and Data Association*. Academic Press.
- Bartak, R.** (2001). Theory and practice of constraint propagation. In *Proc. Third Workshop on Constraint Programming for Decision and Control (CPDC-01)*, pp. 7–14.
- Barto, A. G., Bradtko, S. J., and Singh, S. P.** (1995). Learning to act using real-time dynamic programming. *AIJ*, 7(3), 81–138.
- Barto, A. G., Sutton, R. S., and Anderson, C. W.** (1983). Neuron-like adaptive elements that can solve difficult learning control problems. *IEEE Transactions on Systems, Man and Cybernetics*, 13, 834–846.
- Barto, A. G., Sutton, R. S., and Brouwer, P. S.** (1981). Associative search network: A reinforcement learning associative memory. *Biological Cybernetics*, 40(3), 201–211.
- Barwise, J. and Etchemendy, J.** (1993). *The Language of First-Order Logic: Including the Macintosh Program Tarski's World 4.0* (Third Revised and Expanded edition). Center for the Study of Language and Information (CSLI).
- Barwise, J. and Etchemendy, J.** (2002). *Language, Proof and Logic*. CSLI (Univ. of Chicago Press).
- Baum, E., Boneh, D., and Garrett, C.** (1995). On genetic algorithms. In *COLT-95*, pp. 230–239.
- Baum, E. and Haussler, D.** (1989). What size net gives valid generalization? *Neural Computation*, 1(1), 151–160.
- Baum, E. and Smith, W. D.** (1997). A Bayesian approach to relevance in game playing. *AIJ*, 97(1–2), 195–242.
- Baum, E. and Wilczek, F.** (1988). Supervised learning of probability distributions by neural networks. In Anderson, D. Z. (Ed.), *Neural Information Processing Systems*, pp. 52–61. American Institute of Physics.
- Baum, L. E. and Petrie, T.** (1966). Statistical inference for probabilistic functions of finite state Markov chains. *Annals of Mathematical Statistics*, 41.
- Baxter, J. and Bartlett, P.** (2000). Reinforcement learning in POMDP's via direct gradient ascent. In *ICML-00*, pp. 41–48.
- Bayardo, R. J. and Miranker, D. P.** (1994). An optimal backtrack algorithm for tree-structured constraint satisfaction problems. *AIJ*, 71(1), 159–181.
- Bayardo, R. J. and Schrag, R. C.** (1997). Using CSP look-back techniques to solve real-world SAT instances. In *AAAI-97*, pp. 203–208.
- Bayes, T.** (1763). An essay towards solving a problem in the doctrine of chances. *Philosophical Transactions of the Royal Society of London*, 53, 370–418.
- Beal, D. F.** (1980). An analysis of minimax. In Clarke, M. R. B. (Ed.), *Advances in Computer Chess 2*, pp. 103–109. Edinburgh University Press.
- Beal, J. and Winston, P. H.** (2009). The new frontier of human-level artificial intelligence. *IEEE Intelligent Systems*, 24(4), 21–23.
- Beckert, B. and Posegga, J.** (1995). Leantap: Lean, tableau-based deduction. *JAR*, 15(3), 339–358.
- Beeri, C., Fagin, R., Maier, D., and Yannakakis, M.** (1983). On the desirability of acyclic database schemes. *JACM*, 30(3), 479–513.
- Bekey, G.** (2008). *Robotics: State Of The Art And Future Challenges*. Imperial College Press.
- Bell, C. and Tate, A.** (1985). Using temporal constraints to restrict search in a planner. In *Proc. Third Alvey IKBS SIG Workshop*.
- Bell, J. L. and Machover, M.** (1977). *A Course in Mathematical Logic*. Elsevier/North-Holland.
- Bellman, R. E.** (1952). On the theory of dynamic programming. *PNAS*, 38, 716–719.
- Bellman, R. E.** (1961). *Adaptive Control Processes: A Guided Tour*. Princeton University Press.
- Bellman, R. E.** (1965). On the application of dynamic programming to the determination of optimal play in chess and checkers. *PNAS*, 53, 244–246.
- Bellman, R. E.** (1978). *An Introduction to Artificial Intelligence: Can Computers Think?* Boyd & Fraser Publishing Company.
- Bellman, R. E.** (1984). *Eye of the Hurricane*. World Scientific.
- Bellman, R. E. and Dreyfus, S. E.** (1962). *Applied Dynamic Programming*. Princeton University Press.
- Bellman, R. E.** (1957). *Dynamic Programming*. Princeton University Press.
- Belongie, S., Malik, J., and Puzicha, J.** (2002). Shape matching and object recognition using shape contexts. *PAMI*, 24(4), 509–522.
- Ben-Tal, A. and Nemirovski, A.** (2001). *Lectures on Modern Convex Optimization: Analysis, Algorithms, and Engineering Applications*. SIAM (Society for Industrial and Applied Mathematics).
- Bengio, Y. and LeCun, Y.** (2007). Scaling learning algorithms towards AI. In Bottou, L., Chapelle, O., DeCoste, D., and Weston, J. (Eds.), *Large-Scale Kernel Machines*. MIT Press.
- Bentham, J.** (1823). *Principles of Morals and Legislation*. Oxford University Press, Oxford, UK. Original work published in 1789.
- Berger, J. O.** (1985). *Statistical Decision Theory and Bayesian Analysis*. Springer Verlag.
- Berkson, J.** (1944). Application of the logistic function to bio-assay. *JASA*, 39, 357–365.
- Berlekamp, E. R., Conway, J. H., and Guy, R. K.** (1982). *Winning Ways, For Your Mathematical Plays*. Academic Press.
- Berlekamp, E. R. and Wolfe, D.** (1994). *Mathematical Go: Chilling Gets the Last Point*. A.K. Peters.
- Berleur, J. and Brunstein, K.** (2001). *Ethics of Computing: Codes, Spaces for Discussion and Law*. Chapman and Hall.
- Berliner, H. J.** (1979). The B\* tree search algorithm: A best-first proof procedure. *AIJ*, 12(1), 23–40.
- Berliner, H. J.** (1980a). Backgammon computer program beats world champion. *AIJ*, 14, 205–220.
- Berliner, H. J.** (1980b). Computer backgammon. *Scientific American*, 249(6), 64–72.
- Bernardo, J. M. and Smith, A. F. M.** (1994). *Bayesian Theory*. Wiley.
- Berners-Lee, T., Hendler, J., and Lassila, O.** (2001). The semantic web. *Scientific American*, 284(5), 34–43.
- Bernoulli, D.** (1738). Specimen theoriae novae de mensura sortis. *Proc. St. Petersburg Imperial Academy of Sciences*, 5, 175–192.
- Bernstein, A. and Roberts, M.** (1958). Computer vs. chess player. *Scientific American*, 198(6), 96–105.
- Bernstein, P. L.** (1996). *Against the Odds: The Remarkable Story of Risk*. Wiley.
- Berrou, C., Glavieux, A., and Thitimajshima, P.** (1993). Near Shannon limit error control-correcting coding and decoding: Turbo-codes. 1. In *Proc. IEEE International Conference on Communications*, pp. 1064–1070.
- Berry, D. A. and Fristedt, B.** (1985). *Bandit Problems: Sequential Allocation of Experiments*. Chapman and Hall.

- Bertele, U.** and **Brioschi, F.** (1972). *Nonserial dynamic programming*. Academic Press.
- Bertoli, P., Cimatti, A., and Roveri, M.** (2001a). Heuristic search + symbolic model checking = efficient conformant planning. In *IJCAI-01*, pp. 467–472.
- Bertoli, P., Cimatti, A., Roveri, M., and Traverso, P.** (2001b). Planning in nondeterministic domains under partial observability via symbolic model checking. In *IJCAI-01*, pp. 473–478.
- Bertot, Y., Casteran, P., Huet, G., and Paulin-Mohring, C.** (2004). *Interactive Theorem Proving and Program Development*. Springer.
- Bertsekas, D.** (1987). *Dynamic Programming: Deterministic and Stochastic Models*. Prentice-Hall.
- Bertsekas, D.** and **Tsitsiklis, J. N.** (1996). *Neurodynamic programming*. Athena Scientific.
- Bertsekas, D.** and **Tsitsiklis, J. N.** (2008). *Introduction to Probability* (2nd edition). Athena Scientific.
- Bertsekas, D.** and **Shreve, S. E.** (2007). *Stochastic Optimal Control: The Discrete-Time Case*. Athena Scientific.
- Bessière, C.** (2006). Constraint propagation. In **Rossi, F., van Beek, P., and Walsh, T.** (Eds.), *Handbook of Constraint Programming*. Elsevier.
- Bhar, R.** and **Hamori, S.** (2004). *Hidden Markov Models: Applications to Financial Economics*. Springer.
- Bibel, W.** (1993). *Deduction: Automated Logic*. Academic Press.
- Biere, A., Heule, M., van Maaren, H., and Walsh, T.** (Eds.) (2009). *Handbook of Satisfiability*. IOS Press.
- Billings, D., Burch, N., Davidson, A., Holte, R., Schaeffer, J., Schauenberg, T., and Szafron, D.** (2003). Approximating game-theoretic optimal strategies for full-scale poker. In *IJCAI-03*.
- Binder, J., Koller, D., Russell, S. J., and Kanazawa, K.** (1997a). Adaptive probabilistic networks with hidden variables. *Machine Learning*, 29, 213–244.
- Binder, J., Murphy, K., and Russell, S. J.** (1997b). Space-efficient inference in dynamic probabilistic networks. In *IJCAI-97*, pp. 1292–1296.
- Binford, T. O.** (1971). Visual perception by computer. Invited paper presented at the IEEE Systems Science and Cybernetics Conference, Miami.
- Binmore, K.** (1982). *Essays on Foundations of Game Theory*. Pitman.
- Bishop, C. M.** (1995). *Neural Networks for Pattern Recognition*. Oxford University Press.
- Bishop, C. M.** (2007). *Pattern Recognition and Machine Learning*. Springer-Verlag.
- Bisson, T.** (1990). They're made out of meat. *Omni Magazine*.
- Bistarelli, S., Montanari, U., and Rossi, F.** (1997). Semiring-based constraint satisfaction and optimization. *JACM*, 44(2), 201–236.
- Bitner, J. R.** and **Reingold, E. M.** (1975). Backtrack programming techniques. *CACM*, 18(11), 651–656.
- Bizer, C., Auer, S., Kobilarov, G., Lehmann, J., and Cyganiak, R.** (2007). DBPedia – querying wikipedia like a database. In *Developers Track Presentation at the 16th International Conference on World Wide Web*.
- Blazewicz, J., Ecker, K., Pesch, E., Schmidt, G., and Weglarz, J.** (2007). *Handbook on Scheduling: Models and Methods for Advanced Planning (International Handbooks on Information Systems)*. Springer-Verlag New York, Inc.
- Blei, D. M., Ng, A. Y., and Jordan, M. I.** (2001). Latent Dirichlet Allocation. In *Neural Information Processing Systems*, Vol. 14.
- Blinder, A. S.** (1983). Issues in the coordination of monetary and fiscal policies. In *Monetary Policy Issues in the 1980s*. Federal Reserve Bank, Kansas City, Missouri.
- Bliss, C. I.** (1934). The method of probits. *Science*, 79(2037), 38–39.
- Block, H. D., Knight, B., and Rosenblatt, F.** (1962). Analysis of a four-layer series-coupled perceptron. *Rev. Modern Physics*, 34(1), 275–282.
- Blum, A. L.** and **Furst, M.** (1995). Fast planning through planning graph analysis. In *IJCAI-95*, pp. 1636–1642.
- Blum, A. L.** and **Furst, M.** (1997). Fast planning through planning graph analysis. *AIJ*, 90(1–2), 281–300.
- Blum, A. L.** (1996). On-line algorithms in machine learning. In *Proc. Workshop on On-Line Algorithms, Dagstuhl*, pp. 306–325.
- Blum, A. L.** and **Mitchell, T. M.** (1998). Combining labeled and unlabeled data with co-training. In *COLT-98*, pp. 92–100.
- Blumer, A., Ehrenfeucht, A., Haussler, D., and Warmuth, M.** (1989). Learnability and the Vapnik-Chervonenkis dimension. *JACM*, 36(4), 929–965.
- Bobrow, D. G.** (1967). Natural language input for a computer problem solving system. In **Minsky, M. L.** (Ed.), *Semantic Information Processing*, pp. 133–215. MIT Press.
- Bobrow, D. G., Kaplan, R., Kay, M., Norman, D. A., Thompson, H., and Winograd, T.** (1977). GUS, a frame driven dialog system. *AIJ*, 8, 155–173.
- Boden, M. A.** (1977). *Artificial Intelligence and Natural Man*. Basic Books.
- Boden, M. A.** (Ed.) (1990). *The Philosophy of Artificial Intelligence*. Oxford University Press.
- Bolognesi, A.** and **Ciancarini, P.** (2003). Computer programming of kriegspiel endings: The case of KR vs. k. In *Advances in Computer Games 10*.
- Bonet, B.** (2002). An epsilon-optimal grid-based algorithm for partially observable Markov decision processes. In *ICML-02*, pp. 51–58.
- Bonet, B.** and **Geffner, H.** (1999). Planning as heuristic search: New results. In *ECP-99*, pp. 360–372.
- Bonet, B.** and **Geffner, H.** (2000). Planning with incomplete information as heuristic search in belief space. In *ICAPS-00*, pp. 52–61.
- Bonet, B.** and **Geffner, H.** (2005). An algorithm better than AO\*? In *AAAI-05*.
- Boole, G.** (1847). *The Mathematical Analysis of Logic: Being an Essay towards a Calculus of Deductive Reasoning*. Macmillan, Barclay, and Macmillan, Cambridge.
- Booth, T. L.** (1969). Probabilistic representation of formal languages. In *IEEE Conference Record of the 1969 Tenth Annual Symposium on Switching and Automata Theory*, pp. 74–81.
- Borel, E.** (1921). La théorie du jeu et les équations intégrales à noyau symétrique. *Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences*, 173, 1304–1308.
- Borenstein, J., Everett, B., and Feng, L.** (1996). *Navigating Mobile Robots: Systems and Techniques*. A. K. Peters, Ltd.
- Borenstein, J.** and **Koren, Y.** (1991). The vector field histogram—Fast obstacle avoidance for mobile robots. *IEEE Transactions on Robotics and Automation*, 7(3), 278–288.
- Borgida, A., Brachman, R. J., McGuinness, D., and Alperin Resnick, L.** (1989). CLASSIC: A structural data model for objects. *SIGMOD Record*, 18(2), 58–67.
- Boroditsky, L.** (2003). Linguistic relativity. In **Nadel, L.** (Ed.), *Encyclopedia of Cognitive Science*, pp. 917–921. Macmillan.
- Boser, B., Guyon, I., and Vapnik, V. N.** (1992). A training algorithm for optimal margin classifiers. In *COLT-92*.
- Bosse, M., Newman, P., Leonard, J., Soika, M., Feiten, W., and Teller, S.** (2004). Simultaneous localization and map building in large-scale cyclic environments using the atlas framework. *Int. J. Robotics Research*, 23(12), 1113–1139.
- Bourzutschky, M.** (2006). 7-man endgames with pawns. *CCRL Discussion Board*, [kirill-kryukov.com/chess/discussion-board/viewtopic.php?t=805](http://kirill-kryukov.com/chess/discussion-board/viewtopic.php?t=805).
- Boutilier, C.** and **Brafman, R. I.** (2001). Partial-order planning with concurrent interacting actions. *JAIR*, 14, 105–136.
- Boutilier, C., Dearden, R., and Goldszmidt, M.** (2000). Stochastic dynamic programming with factored representations. *AIJ*, 121, 49–107.
- Boutilier, C., Reiter, R., and Price, B.** (2001). Symbolic dynamic programming for first-order MDPs. In *IJCAI-01*, pp. 467–472.
- Boutilier, C., Friedman, N., Goldszmidt, M., and Koller, D.** (1996). Context-specific independence in Bayesian networks. In *UAI-96*, pp. 115–123.
- Bouzy, B.** and **Cazenave, T.** (2001). Computer go: An AI oriented survey. *AIJ*, 132(1), 39–103.
- Bowerman, M.** and **Levinson, S.** (2001). *Language acquisition and conceptual development*. Cambridge University Press.
- Bowling, M., Johanson, M., Burch, N., and Szafron, D.** (2008). Strategy evaluation in extensive games with importance sampling. In *ICML-08*.
- Box, G. E. P.** (1957). Evolutionary operation: A method of increasing industrial productivity. *Applied Statistics*, 6, 81–101.
- Box, G. E. P., Jenkins, G., and Reinsel, G.** (1994). *Time Series Analysis: Forecasting and Control* (3rd edition). Prentice Hall.
- Boyan, J. A.** (2002). Technical update: Least-squares temporal difference learning. *Machine Learning*, 49(2–3), 233–246.
- Boyan, J. A.** and **Moore, A. W.** (1998). Learning evaluation functions for global optimization and Boolean satisfiability. In *AAAI-98*.
- Boyd, S.** and **Vandenberghe, L.** (2004). *Convex Optimization*. Cambridge University Press.
- Boyer, X., Friedman, N., and Koller, D.** (1999). Discovering the hidden structure of complex dynamic systems. In *UAI-99*.
- Boyer, R. S.** and **Moore, J. S.** (1979). *A Computational Logic*. Academic Press.
- Boyer, R. S.** and **Moore, J. S.** (1984). Proof checking the RSA public key encryption algorithm. *American Mathematical Monthly*, 91(3), 181–189.

- Brachman, R. J.** (1979). On the epistemological status of semantic networks. In Findler, N. V. (Ed.), *Associative Networks: Representation and Use of Knowledge by Computers*, pp. 3–50. Academic Press.
- Brachman, R. J., Fikes, R. E., and Levesque, H. J.** (1983). Krypton: A functional approach to knowledge representation. *Computer*, 16(10), 67–73.
- Brachman, R. J. and Levesque, H. J.** (Eds.). (1985). *Readings in Knowledge Representation*. Morgan Kaufmann.
- Bradtke, S. J. and Barto, A. G.** (1996). Linear least-squares algorithms for temporal difference learning. *Machine Learning*, 22, 33–57.
- Brafman, O. and Brafman, R.** (2009). *Sway: The Irresistible Pull of Irrational Behavior*. Broadway Business.
- Brafman, R. I. and Domshlak, C.** (2008). From one to many: Planning for loosely coupled multi-agent systems. In *ICAPS-08*, pp. 28–35.
- Brafman, R. I. and Tenenholtz, M.** (2000). A near optimal polynomial time algorithm for learning in certain classes of stochastic games. *AIJ*, 121, 31–47.
- Braitenberg, V.** (1984). *Vehicles: Experiments in Synthetic Psychology*. MIT Press.
- Bransford, J. and Johnson, M.** (1973). Consideration of some problems in comprehension. In Chase, W. G. (Ed.), *Visual Information Processing*. Academic Press.
- Brants, T., Popat, A. C., Xu, P., Och, F. J., and Dean, J.** (2007). Large language models in machine translation. In *EMNLP-CoNLL-2007: Proc. 2007 Joint Conference on Empirical Methods in Natural Language Processing and Computational Natural Language Learning*, pp. 858–867.
- Bratko, I.** (1986). *Prolog Programming for Artificial Intelligence* (1st edition). Addison-Wesley.
- Bratko, I.** (2001). *Prolog Programming for Artificial Intelligence* (Third edition). Addison-Wesley.
- Bratman, M. E.** (1987). *Intention, Plans, and Practical Reason*. Harvard University Press.
- Bratman, M. E.** (1992). Planning and the stability of intention. *Minds and Machines*, 2(1), 1–16.
- Breese, J. S.** (1992). Construction of belief and decision networks. *Computational Intelligence*, 8(4), 624–647.
- Breese, J. S. and Heckerman, D.** (1996). Decision-theoretic troubleshooting: A framework for repair and experiment. In *UAI-96*, pp. 124–132.
- Breiman, L.** (1996). Bagging predictors. *Machine Learning*, 24(2), 123–140.
- Breiman, L., Friedman, J., Olshen, R. A., and Stone, C. J.** (1984). *Classification and Regression Trees*. Wadsworth International Group.
- Brelaz, D.** (1979). New methods to color the vertices of a graph. *CACM*, 22(4), 251–256.
- Brent, R. P.** (1973). *Algorithms for minimization without derivatives*. Prentice-Hall.
- Bresnan, J.** (1982). *The Mental Representation of Grammatical Relations*. MIT Press.
- Brewka, G., Dix, J., and Konolige, K.** (1997). *Nonmonotonic Reasoning: An Overview*. CSLI Publications.
- Brickley, D. and Guha, R. V.** (2004). RDF vocabulary description language 1.0: RDF schema. Tech. rep., W3C.
- Bridle, J. S.** (1990). Probabilistic interpretation of feedforward classification network outputs, with relationships to statistical pattern recognition. In Fogelman Soulié, F. and Héroult, J. (Eds.), *Neurocomputing: Algorithms, Architectures and Applications*. Springer-Verlag.
- Briggs, R.** (1985). Knowledge representation in Sanskrit and artificial intelligence. *AIMag*, 6(1), 32–39.
- Brin, D.** (1998). *The Transparent Society*. Perseus.
- Brin, S.** (1999). Extracting patterns and relations from the world wide web. Technical report 1999-65, Stanford InfoLab.
- Brin, S. and Page, L.** (1998). The anatomy of a large-scale hypertextual web search engine. In *Proc. Seventh World Wide Web Conference*.
- Bringsjord, S.** (2008). If I were judge. In Epstein, R., Roberts, G., and Beber, G. (Eds.), *Parsing the Turing Test*. Springer.
- Broadbent, D. E.** (1958). *Perception and Communication*. Pergamon.
- Brooks, R. A.** (1986). A robust layered control system for a mobile robot. *IEEE Journal of Robotics and Automation*, 2, 14–23.
- Brooks, R. A.** (1989). Engineering approach to building complete, intelligent beings. *Proc. SPIE—the International Society for Optical Engineering*, 1002, 618–625.
- Brooks, R. A.** (1991). Intelligence without representation. *AIJ*, 47(1–3), 139–159.
- Brooks, R. A. and Lozano-Perez, T.** (1985). A subdivision algorithm in configuration space for find-path with rotation. *IEEE Transactions on Systems, Man and Cybernetics*, 15(2), 224–233.
- Brown, C., Finkelstein, L., and Purdom, P.** (1988). Backtrack searching in the presence of symmetry. In Mora, T. (Ed.), *Applied Algebra, Algebraic Algorithms and Error-Correcting Codes*, pp. 99–110. Springer-Verlag.
- Brown, K. C.** (1974). A note on the apparent bias of net revenue estimates. *J. Finance*, 29, 1215–1216.
- Brown, P. F., Cocke, J., Della Pietra, S. A., Della Pietra, V. J., Jelinek, F., Mercer, R. L., and Roossin, P.** (1988). A statistical approach to language translation. In *COLING-88*, pp. 71–76.
- Brown, P. F., Della Pietra, S. A., Della Pietra, V. J., and Mercer, R. L.** (1993). The mathematics of statistical machine translation: Parameter estimation. *Computational Linguistics*, 19(2), 263–311.
- Brownston, L., Farrell, R., Kant, E., and Martin, N.** (1985). *Programming expert systems in OPS5: An introduction to rule-based programming*. Addison-Wesley.
- Bruce, V., Georgeson, M., and Green, P.** (2003). *Visual Perception: Physiology, Psychology and Ecology*. Psychology Press.
- Bruner, J. S., Goodnow, J. J., and Austin, G. A.** (1957). *A Study of Thinking*. Wiley.
- Bryant, B. D. and Miikkulainen, R.** (2007). Acquiring visibly intelligent behavior with example-guided neuroevolution. In *AAAI-07*.
- Bryce, D. and Kambhampati, S.** (2007). A tutorial on planning graph-based reachability heuristics. *AIMag, Spring*, 47–83.
- Bryce, D., Kambhampati, S., and Smith, D. E.** (2006). Planning graph heuristics for belief space search. *JAIR*, 26, 35–99.
- Bryson, A. E. and Ho, Y.-C.** (1969). *Applied Optimal Control*. Blaisdell.
- Buchanan, B. G. and Mitchell, T. M.** (1978). Model-directed learning of production rules. In Waterman, D. A. and Hayes-Roth, F. (Eds.), *Pattern-Directed Inference Systems*, pp. 297–312. Academic Press.
- Buchanan, B. G., Mitchell, T. M., Smith, R. G., and Johnson, C. R.** (1978). Models of learning systems. In *Encyclopedia of Computer Science and Technology*, Vol. 11. Dekker.
- Buchanan, B. G. and Shortliffe, E. H.** (Eds.). (1984). *Rule-Based Expert Systems: The MYCIN Experiments of the Stanford Heuristic Programming Project*. Addison-Wesley.
- Buchanan, B. G., Sutherland, G. L., and Feigenbaum, E. A.** (1969). Heuristic DENDRAL: A program for generating explanatory hypotheses in organic chemistry. In Meltzer, B., Michie, D., and Swann, M. (Eds.), *Machine Intelligence 4*, pp. 209–254. Edinburgh University Press.
- Buehler, M., Iagnemma, K., and Singh, S.** (Eds.). (2006). *The 2005 DARPA Grand Challenge: The Great Robot Race*. Springer-Verlag.
- Bunt, H. C.** (1985). The formal representation of (quasi-) continuous concepts. In Hobbs, J. R. and Moore, R. C. (Eds.), *Formal Theories of the Commonsense World*, chap. 2, pp. 37–70. Ablex.
- Burgard, W., Cremers, A. B., Fox, D., Hähnel, D., Lakemeyer, G., Schulz, D., Steiner, W., and Thrun, S.** (1999). Experiences with an interactive museum tour-guide robot. *AIJ*, 114(1–2), 3–55.
- Buro, M.** (1995). ProBCut: An effective selective extension of the alpha-beta algorithm. *J. International Computer Chess Association*, 18(2), 71–76.
- Buro, M.** (2002). Improving heuristic mini-max search by supervised learning. *AIJ*, 134(1–2), 85–99.
- Burstein, J., Leacock, C., and Swartz, R.** (2001). Automated evaluation of essays and short answers. In *Fifth International Computer Assisted Assessment (CAA) Conference*.
- Burton, R.** (2009). *On Being Certain: Believing You Are Right Even When You're Not*. St. Martin's Griffin.
- Buss, D. M.** (2005). *Handbook of evolutionary psychology*. Wiley.
- Butler, S.** (1863). Darwin among the machines. *The Press (Christchurch, New Zealand)*, June 13.
- Bylander, T.** (1992). Complexity results for serial decomposability. In *AAAI-92*, pp. 729–734.
- Bylander, T.** (1994). The computational complexity of propositional STRIPS planning. *AIJ*, 69, 165–204.
- Byrd, R. H., Lu, P., Nocedal, J., and Zhu, C.** (1995). A limited memory algorithm for bound constrained optimization. *SIAM Journal on Scientific and Statistical Computing*, 16(5), 1190–1208.
- Cabeza, R. and Nyberg, L.** (2001). Imaging cognition II: An empirical review of 275 PET and fMRI studies. *J. Cognitive Neuroscience*, 12, 1–47.
- Cafarella, M. J., Halevy, A., Zhang, Y., Wang, D. Z., and Wu, E.** (2008). Webtables: Exploring the power of tables on the web. In *Vldb-2008*.
- Calvanese, D., Lenzerini, M., and Nardi, D.** (1999). Unifying class-based representation formalisms. *JAIR*, 11, 199–240.
- Campbell, M. S., Hoane, A. J., and Hsu, F.-H.** (2002). Deep Blue. *AIJ*, 134(1–2), 57–83.

- Canny, J.** and Reif, J. (1987). New lower bound techniques for robot motion planning problems. In *FOCS-87*, pp. 39–48.
- Canny, J.** (1986). A computational approach to edge detection. *PAMI*, 8, 679–698.
- Canny, J.** (1988). *The Complexity of Robot Motion Planning*. MIT Press.
- Capen, E., Clapp, R., and Campbell, W.** (1971). Competitive bidding in high-risk situations. *J. Petroleum Technology*, 23, 641–653.
- Caprara, A., Fischetti, M., and Toth, P.** (1995). A heuristic method for the set covering problem. *Operations Research*, 47, 730–743.
- Carbonell, J. G.** (1983). Derivational analogy and its role in problem solving. In *AAAI-83*, pp. 64–69.
- Carbonell, J. G., Knoblock, C. A., and Minton, S.** (1989). PRODIGY: An integrated architecture for planning and learning. Technical report CMU-CS-89-189, Computer Science Department, Carnegie-Mellon University.
- Carbonell, J. R. and Collins, A. M.** (1973). Natural semantics in artificial intelligence. In *IJCAI-73*, pp. 344–351.
- Cardano, G.** (1663). *Liber de ludo alee*. Lyons.
- Carnap, R.** (1928). *Der logische Aufbau der Welt*. Weltkreis-verlag. Translated into English as (Carnap, 1967).
- Carnap, R.** (1948). On the application of inductive logic. *Philosophy and Phenomenological Research*, 8, 133–148.
- Carnap, R.** (1950). *Logical Foundations of Probability*. University of Chicago Press.
- Carroll, S.** (2007). *The Making of the Fittest: DNA and the Ultimate Forensic Record of Evolution*. Norton.
- Casati, R. and Varzi, A.** (1999). *Parts and places: the structures of spatial representation*. MIT Press.
- Cassandra, A. R., Kaelbling, L. P., and Littman, M. L.** (1994). Acting optimally in partially observable stochastic domains. In *AAAI-94*, pp. 1023–1028.
- Cassandras, C. G. and Lygeros, J.** (2006). *Stochastic Hybrid Systems*. CRC Press.
- Castro, R., Coates, M., Liang, G., Nowak, R., and Yu, B.** (2004). Network tomography: Recent developments. *Statistical Science*, 19(3), 499–517.
- Cesa-Bianchi, N. and Lugosi, G.** (2006). *Prediction, learning, and Games*. Cambridge University Press.
- Cesta, A., Cortellessa, G., Denis, M., Donati, A., Fratini, S., Oddi, A., Policella, N., Rabenau, E., and Schulster, J.** (2007). MEXAR2: AI solves mission planner problems. *IEEE Intelligent Systems*, 22(4), 12–19.
- Chakrabarti, P. P., Ghose, S., Acharya, A., and de Sarkar, S. C.** (1989). Heuristic search in restricted memory. *AIJ*, 41(2), 197–222.
- Chandra, A. K. and Harel, D.** (1980). Computable queries for relational data bases. *J. Computer and System Sciences*, 21(2), 156–178.
- Chang, C.-L. and Lee, R. C.-T.** (1973). *Symbolic Logic and Mechanical Theorem Proving*. Academic Press.
- Chapman, D.** (1987). Planning for conjunctive goals. *AIJ*, 32(3), 333–377.
- Charniak, E.** (1993). *Statistical Language Learning*. MIT Press.
- Charniak, E.** (1996). Tree-bank grammars. In *AAAI-96*, pp. 1031–1036.
- Charniak, E.** (1997). Statistical parsing with a context-free grammar and word statistics. In *AAAI-97*, pp. 598–603.
- Charniak, E. and Goldman, R.** (1992). A Bayesian model of plan recognition. *AIJ*, 64(1), 53–79.
- Charniak, E. and McDermott, D.** (1985). *Introduction to Artificial Intelligence*. Addison-Wesley.
- Charniak, E., Riesbeck, C., McDermott, D., and Meehan, J.** (1987). *Artificial Intelligence Programming* (2nd edition). Lawrence Erlbaum Associates.
- Charniak, E.** (1991). Bayesian networks without tears. *AIMag*, 12(4), 50–63.
- Charniak, E. and Johnson, M.** (2005). Coarse-to-fine n-best parsing and maxent discriminative reranking. In *ACL-05*.
- Chater, N. and Oaksford, M.** (Eds.). (2008). *The probabilistic mind: Prospects for Bayesian cognitive science*. Oxford University Press.
- Chatfield, C.** (1989). *The Analysis of Time Series: An Introduction* (4th edition). Chapman and Hall.
- Cheeseman, P.** (1985). In defense of probability. In *IJCAI-85*, pp. 1002–1009.
- Cheeseman, P.** (1988). An inquiry into computer understanding. *Computational Intelligence*, 4(1), 58–66.
- Cheeseman, P., Kanefsky, B., and Taylor, W.** (1991). Where the really hard problems are. In *IJCAI-91*, pp. 331–337.
- Cheeseman, P., Self, M., Kelly, J., and Stutz, J.** (1988). Bayesian classification. In *AAAI-88*, Vol. 2, pp. 607–611.
- Cheeseman, P. and Stutz, J.** (1996). Bayesian classification (AutoClass): Theory and results. In Fayyad, U., Piatetsky-Shapiro, G., Smyth, P., and Uthurusamy, R. (Eds.), *Advances in Knowledge Discovery and Data Mining*. AAAI Press/MIT Press.
- Chen, S. F. and Goodman, J.** (1996). An empirical study of smoothing techniques for language modeling. In *ACL-96*, pp. 310–318.
- Cheng, J. and Druzdzel, M. J.** (2000). AIS-BN: An adaptive importance sampling algorithm for evidential reasoning in large Bayesian networks. *JAIR*, 13, 155–188.
- Cheng, J., Greiner, R., Kelly, J., Bell, D. A., and Liu, W.** (2002). Learning Bayesian networks from data: An information-theory based approach. *AIJ*, 137, 43–90.
- Chklovski, T. and Gil, Y.** (2005). Improving the design of intelligent acquisition interfaces for collecting world knowledge from web contributors. In *Proc. Third International Conference on Knowledge Capture (K-CAP)*.
- Chomsky, N.** (1956). Three models for the description of language. *IRE Transactions on Information Theory*, 2(3), 113–124.
- Chomsky, N.** (1957). *Syntactic Structures*. Mouton.
- Choset, H.** (1996). *Sensor Based Motion Planning: The Hierarchical Generalized Voronoi Graph*. Ph.D. thesis, California Institute of Technology.
- Choset, H., Lynch, K., Hutchinson, S., Kantor, G., Burgard, W., Kavraki, L., and Thrun, S.** (2004). *Principles of Robotic Motion: Theory, Algorithms, and Implementation*. MIT Press.
- Chung, K. L.** (1979). *Elementary Probability Theory with Stochastic Processes* (3rd edition). Springer-Verlag.
- Church, A.** (1936). A note on the Entscheidungsproblem. *JSL*, 1, 40–41 and 101–102.
- Church, A.** (1956). *Introduction to Mathematical Logic*. Princeton University Press.
- Church, K. and Patil, R.** (1982). Coping with syntactic ambiguity or how to put the block in the box on the table. *Computational Linguistics*, 8(3–4), 139–149.
- Church, K.** (2004). Speech and language processing: Can we use the past to predict the future. In *Proc. Conference on Text, Speech, and Dialogue*.
- Church, K. and Gale, W. A.** (1991). A comparison of the enhanced Good-Turing and deleted estimation methods for estimating probabilities of English bigrams. *Computer Speech and Language*, 5, 19–54.
- Churchland, P. M. and Churchland, P. S.** (1982). Functionalism, qualia, and intentionality. In Biro, J. I. and Shahan, R. W. (Eds.), *Mind, Brain and Function: Essays in the Philosophy of Mind*, pp. 121–145. University of Oklahoma Press.
- Churchland, P. S.** (1986). *Neurophilosophy: Toward a Unified Science of the Mind-Brain*. MIT Press.
- Ciancarini, P. and Wooldridge, M.** (2001). *Agent-Oriented Software Engineering*. Springer-Verlag.
- Cimatti, A., Roveri, M., and Traverso, P.** (1998). Automatic OBDD-based generation of universal plans in non-deterministic domains. In *AAAI-98*, pp. 875–881.
- Clark, A.** (1998). *Being There: Putting Brain, Body, and World Together Again*. MIT Press.
- Clark, A.** (2008). *Supersizing the Mind: Embodiment, Action, and Cognitive Extension*. Oxford University Press.
- Clark, K. L.** (1978). Negation as failure. In Gallaire, H. and Minker, J. (Eds.), *Logic and Data Bases*, pp. 293–322. Plenum.
- Clark, P. and Niblett, T.** (1989). The CN2 induction algorithm. *Machine Learning*, 3, 261–283.
- Clark, S. and Curran, J. R.** (2004). Parsing the WSJ using CCG and log-linear models. In *ACL-04*, pp. 104–111.
- Clarke, A. C.** (1968a). *2001: A Space Odyssey*. Signet.
- Clarke, A. C.** (1968b). The world of 2001. *Vogue*.
- Clarke, E. and Grumberg, O.** (1987). Research on automatic verification of finite-state concurrent systems. *Annual Review of Computer Science*, 2, 269–290.
- Clarke, M. R. B.** (Ed.). (1977). *Advances in Computer Chess I*. Edinburgh University Press.
- Clearwater, S. H.** (Ed.). (1996). *Market-Based Control*. World Scientific.
- Clocksins, W. F. and Mellish, C. S.** (2003). *Programming in Prolog* (5th edition). Springer-Verlag.
- Clocksins, W. F.** (2003). *Clause and Effect: Prolog Programming for the Working Programmer*. Springer.
- Coarfa, C., Demopoulos, D., Aguirre, A., Subramanian, D., and Yardi, M.** (2003). Random 3-SAT: The plot thickens. *Constraints*, 8(3), 243–261.
- Coates, A., Abbeel, P., and Ng, A. Y.** (2009). Apprenticeship learning for helicopter control. *JACM*, 52(7), 97–105.
- Cobham, A.** (1964). The intrinsic computational difficulty of functions. In *Proc. 1964 International Congress for Logic, Methodology, and Philosophy of Science*, pp. 24–30.

- Cohen, P. R.** (1995). *Empirical methods for artificial intelligence*. MIT Press.
- Cohen, P. R.** and Levesque, H. J. (1990). Intention is choice with commitment. *AIJ*, 42(2–3), 213–261.
- Cohen, P. R.**, Morgan, J., and Pollack, M. E. (1990). *Intentions in Communication*. MIT Press.
- Cohen, W. W.** and Page, C. D. (1995). Learnability in inductive logic programming: Methods and results. *New Generation Computing*, 13(3–4), 369–409.
- Cohn, A. G.**, Bennett, B., Gooday, J. M., and Gotts, N. (1997). RCC: A calculus for region based qualitative spatial reasoning. *Geoinformatica*, 1, 275–316.
- Collin, Z.**, Dechter, R., and Katz, S. (1999). Self-stabilizing distributed constraint satisfaction. *Chicago Journal of Theoretical Computer Science*, 1999(115).
- Collins, F. S.**, Morgan, M., and Patrinos, A. (2003). The human genome project: Lessons from large-scale biology. *Science*, 300(5617), 286–290.
- Collins, M.** (1999). *Head-driven Statistical Models for Natural Language Processing*. Ph.D. thesis, University of Pennsylvania.
- Collins, M.** and Duffy, K. (2002). New ranking algorithms for parsing and tagging: Kernels over discrete structures, and the voted perceptron. In *ACL-02*.
- Colmerauer, A.** and Roussel, P. (1993). The birth of Prolog. *SIGPLAN Notices*, 28(3), 37–52.
- Colmerauer, A.** (1975). Les grammaires de métamorphose. Tech. rep., Groupe d'Intelligence Artificielle, Université de Marseille-Luminy.
- Colmerauer, A.**, Kanoui, H., Pasero, R., and Roussel, P. (1973). Un système de communication homme-machine en Français. Rapport, Groupe d'Intelligence Artificielle, Université d'Aix-Marseille II.
- Condon, J. H.** and Thompson, K. (1982). Belle chess hardware. In Clarke, M. R. B. (Ed.), *Advances in Computer Chess 3*, pp. 45–54. Pergamon.
- Congdon, C. B.**, Huber, M., Kortenkamp, D., Bidlack, C., Cohen, C., Huffman, S., Koss, F., Raschke, U., and Weymouth, T. (1992). CARMEL versus Flakey: A comparison of two robots. Tech. rep. Papers from the AAAI Robot Competition, RC-92-01, American Association for Artificial Intelligence.
- Conlisk, J.** (1989). Three variants on the Allais example. *American Economic Review*, 79(3), 392–407.
- Connell, J.** (1989). *A Colony Architecture for an Artificial Creature*. Ph.D. thesis, Artificial Intelligence Laboratory, MIT. Also available as AI Technical Report 1151.
- Consortium, T. G. O.** (2008). The gene ontology project in 2008. *Nucleic Acids Research*, 36.
- Cook, S. A.** (1971). The complexity of theorem-proving procedures. In *STOC-71*, pp. 151–158.
- Cook, S. A.** and Mitchell, D. (1997). Finding hard instances of the satisfiability problem: A survey. In Du, D., Gu, J., and Pardalos, P. (Eds.), *Satisfiability problems: Theory and applications*. American Mathematical Society.
- Cooper, G.** (1990). The computational complexity of probabilistic inference using Bayesian belief networks. *AIJ*, 42, 393–405.
- Cooper, G.** and Herskovits, E. (1992). A Bayesian method for the induction of probabilistic networks from data. *Machine Learning*, 9, 309–347.
- Copeland, J.** (1993). *Artificial Intelligence: A Philosophical Introduction*. Blackwell.
- Copernicus** (1543). *De Revolutionibus Orbium Coelestium*. Apud Ioh. Petreium, Nuremberg.
- Cormen, T. H.**, Leiserson, C. E., and Rivest, R. (1990). *Introduction to Algorithms*. MIT Press.
- Cortes, C.** and Vapnik, V. N. (1995). Support vector networks. *Machine Learning*, 20, 273–297.
- Cournot, A.** (Ed.). (1838). *Recherches sur les principes mathématiques de la théorie des richesses*. L. Hachette, Paris.
- Cover, T.** and Thomas, J. (2006). *Elements of Information Theory* (2nd edition). Wiley.
- Cowan, J. D.** and Sharp, D. H. (1988a). Neural nets. *Quarterly Reviews of Biophysics*, 21, 365–427.
- Cowan, J. D.** and Sharp, D. H. (1988b). Neural nets and artificial intelligence. *Daedalus*, 117, 85–121.
- Cowell, R.**, Dawid, A. P., Lauritzen, S., and Spiegelhalter, D. J. (2002). *Probabilistic Networks and Expert Systems*. Springer.
- Cox, I.** (1993). A review of statistical data association techniques for motion correspondence. *IJCV*, 10, 53–66.
- Cox, I.** and Hingorani, S. L. (1994). An efficient implementation and evaluation of Reid's multiple hypothesis tracking algorithm for visual tracking. In *ICPR-94*, Vol. 1, pp. 437–442.
- Cox, I.** and Wilfong, G. T. (Eds.). (1990). *Autonomous Robot Vehicles*. Springer Verlag.
- Cox, R. T.** (1946). Probability, frequency, and reasonable expectation. *American Journal of Physics*, 14(1), 1–13.
- Craig, J.** (1989). *Introduction to Robotics: Mechanics and Control* (2nd edition). Addison-Wesley Publishing, Inc.
- Craik, K. J.** (1943). *The Nature of Explanation*. Cambridge University Press.
- Craswell, N.**, Zaragoza, H., and Robertson, S. E. (2005). Microsoft cambridge at trec-14: Enterprise track. In *Proc. Fourteenth Text REtrieval Conference*.
- Crauser, A.**, Mehlhorn, K., Meyer, U., and Sanders, P. (1998). A parallelization of Dijkstra's shortest path algorithm. In *Proc. 23rd International Symposium on Mathematical Foundations of Computer Science*, pp. 722–731.
- Craven, M.**, DiPasquo, D., Freitag, D., McCallum, A., Mitchell, T. M., Nigam, K., and Slattery, S. (2000). Learning to construct knowledge bases from the World Wide Web. *AIJ*, 118(1/2), 69–113.
- Crawford, J. M.** and Auton, L. D. (1993). Experimental results on the crossover point in satisfiability problems. In *AAAI-93*, pp. 21–27.
- Cristianini, N.** and Hahn, M. (2007). *Introduction to Computational Genomics: A Case Studies Approach*. Cambridge University Press.
- Cristianini, N.** and Schölkopf, B. (2002). Support vector machines and kernel methods: The new generation of learning machines. *AIMag*, 23(3), 31–41.
- Cristianini, N.** and Shawe-Taylor, J. (2000). *An introduction to support vector machines and other kernel-based learning methods*. Cambridge University Press.
- Crockett, L.** (1994). *The Turing Test and the Frame Problem: AI's Mistaken Understanding of Intelligence*. Ablex.
- Croft, B.**, Metzler, D., and Stroham, T. (2009). *Search Engines: Information retrieval in Practice*. Addison Wesley.
- Cross, S. E.** and Walker, E. (1994). DART: Applying knowledge based planning and scheduling to crisis action planning. In Zweben, M. and Fox, M. S. (Eds.), *Intelligent Scheduling*, pp. 711–729. Morgan Kaufmann.
- Cruse, D. A.** (1986). *Lexical Semantics*. Cambridge University Press.
- Culberson, J.** and Schaeffer, J. (1996). Searching with pattern databases. In *Advances in Artificial Intelligence (Lecture Notes in Artificial Intelligence 1081)*, pp. 402–416. Springer-Verlag.
- Culberson, J.** and Schaeffer, J. (1998). Pattern databases. *Computational Intelligence*, 14(4), 318–334.
- Cullingford, R. E.** (1981). Integrating knowledge sources for computer “understanding” tasks. *IEEE Transactions on Systems, Man and Cybernetics (SMC)*, 11.
- Cummins, D.** and Allen, C. (1998). *The Evolution of Mind*. Oxford University Press.
- Cushing, W.**, Kambhampati, S., Mausam, and Weld, D. S. (2007). When is temporal planning really temporal? In *IJCAI-07*.
- Cybenko, G.** (1988). Continuous valued neural networks with two hidden layers are sufficient. Technical report, Department of Computer Science, Tufts University.
- Cybenko, G.** (1989). Approximation by superpositions of a sigmoidal function. *Mathematics of Controls, Signals, and Systems*, 2, 303–314.
- Daganzo, C.** (1979). *Multinomial probit: The theory and its application to demand forecasting*. Academic Press.
- Dagum, P.** and Luby, M. (1993). Approximating probabilistic inference in Bayesian belief networks is NP-hard. *AIJ*, 60(1), 141–153.
- Dalal, N.** and Triggs, B. (2005). Histograms of oriented gradients for human detection. In *CVPR*, pp. 886–893.
- Dantzig, G. B.** (1949). Programming of interdependent activities: II. Mathematical model. *Econometrica*, 17, 200–211.
- Darwiche, A.** (2001). Recursive conditioning. *AIJ*, 126, 5–41.
- Darwiche, A.** and Ginsberg, M. L. (1992). A symbolic generalization of probability theory. In *AAAI-92*, pp. 622–627.
- Darwiche, A.** (2009). *Modeling and reasoning with Bayesian networks*. Cambridge University Press.
- Darwin, C.** (1859). *On The Origin of Species by Means of Natural Selection*. J. Murray, London.
- Darwin, C.** (1871). *Descent of Man*. J. Murray.
- Dasgupta, P.**, Chakrabarti, P. P., and de Sarkar, S. C. (1994). Agent searching in a tree and the optimality of iterative deepening. *AIJ*, 71, 195–208.
- Davidson, D.** (1980). *Essays on Actions and Events*. Oxford University Press.
- Davies, T. R.** (1985). Analogy. Informal note IN-CSLI-85-4. Center for the Study of Language and Information (CSLI).
- Davies, T. R.** and Russell, S. J. (1987). A logical approach to reasoning by analogy. In *IJCAI-87*, Vol. 1, pp. 264–270.
- Davis, E.** (1986). *Representing and Acquiring Geographic Knowledge*. Pitman and Morgan Kaufmann.
- Davis, E.** (1990). *Representations of Commonsense Knowledge*. Morgan Kaufmann.

- Davis, E.** (2005). Knowledge and communication: A first-order theory. *AIJ*, 166, 81–140.
- Davis, E.** (2006). The expressivity of quantifying over regions. *J. Logic and Computation*, 16, 891–916.
- Davis, E.** (2007). Physical reasoning. In van Harmelen, F., Lifschitz, V., and Porter, B. (Eds.), *The Handbook of Knowledge Representation*, pp. 597–620. Elsevier.
- Davis, E.** (2008). Pouring liquids: A study in commonsense physical reasoning. *AIJ*, 172(1540–1578).
- Davis, E.** and Morgenstern, L. (2004). Introduction: Progress in formal commonsense reasoning. *AIJ*, 153, 1–12.
- Davis, E.** and Morgenstern, L. (2005). A first-order theory of communication and multi-agent plans. *J. Logic and Computation*, 15(5), 701–749.
- Davis, K. H., Biddulph, R., and Balashek, S.** (1952). Automatic recognition of spoken digits. *J. Acoustical Society of America*, 24(6), 637–642.
- Davis, M.** (1957). A computer program for Presburger's algorithm. In *Proving Theorems (as Done by Man, Logician, or Machine)*, pp. 215–233. Proc. Summer Institute for Symbolic Logic. Second edition; publication date is 1960.
- Davis, M., Logemann, G., and Loveland, D.** (1962). A machine program for theorem-proving. *CACM*, 5, 394–397.
- Davis, M.** and Putnam, H. (1960). A computing procedure for quantification theory. *JACM*, 7(3), 201–215.
- Davis, R.** and Lenat, D. B. (1982). *Knowledge-Based Systems in Artificial Intelligence*. McGraw-Hill.
- Dayan, P.** (1992). The convergence of TD( $\lambda$ ) for general  $\lambda$ . *Machine Learning*, 8(3–4), 341–362.
- Dayan, P.** and Abbott, L. F. (2001). *Theoretical Neuroscience: Computational and Mathematical Modeling of Neural Systems*. MIT Press.
- Dayan, P.** and Niv, Y. (2008). Reinforcement learning and the brain: The good, the bad and the ugly. *Current Opinion in Neurobiology*, 18(2), 185–196.
- de Dombal, F. T., Leaper, D. J., Horrocks, J. C., and Staniland, J. R.** (1974). Human and computer-aided diagnosis of abdominal pain: Further report with emphasis on performance of clinicians. *British Medical Journal*, 1, 376–380.
- de Dombal, F. T., Staniland, J. R., and Clamp, S. E.** (1981). Geographical variation in disease presentation. *Medical Decision Making*, 1, 59–69.
- de Finetti, B.** (1937). Le prévision: ses lois logiques, ses sources subjectives. *Ann. Inst. Poincaré*, 7, 1–68.
- de Finetti, B.** (1993). On the subjective meaning of probability. In Monari, P. and Cocchi, D. (Eds.), *Probabilità e Induzione*, pp. 291–321. Clueb.
- de Freitas, J. F. G., Niranjani, M., and Gee, A. H.** (2000). Sequential Monte Carlo methods to train neural network models. *Neural Computation*, 12(4), 933–953.
- de Kleer, J.** (1975). Qualitative and quantitative knowledge in classical mechanics. Tech. rep. AI-TR-352, MIT Artificial Intelligence Laboratory.
- de Kleer, J.** (1989). A comparison of ATMS and CSP techniques. In *IJCAI-89*, Vol. 1, pp. 290–296.
- de Kleer, J.** and Brown, J. S. (1985). A qualitative physics based on confluences. In Hobbs, J. R. and Moore, R. C. (Eds.), *Formal Theories of the Commonsense World*, chap. 4, pp. 109–183. Ablex.
- de Marcken, C.** (1996). *Unsupervised Language Acquisition*. Ph.D. thesis, MIT.
- De Morgan, A.** (1864). On the syllogism, No. IV, and on the logic of relations. *Transaction of the Cambridge Philosophical Society*, X, 331–358.
- De Raedt, L.** (1992). *Interactive Theory Revision: An Inductive Logic Programming Approach*. Academic Press.
- de Salvo Braz, R., Amir, E., and Roth, D.** (2007). Lifted first-order probabilistic inference. In Getoor, L. and Taskar, B. (Eds.), *Introduction to Statistical Relational Learning*. MIT Press.
- Deacon, T. W.** (1997). *The symbolic species: The co-evolution of language and the brain*. W. W. Norton.
- Deale, M., Yvanovich, M., Schnitzius, D., Kautz, D., Carpenter, M., Zweben, M., Davis, G., and Daun, B.** (1994). The space shuttle ground processing scheduling system. In Zweben, M. and Fox, M. (Eds.), *Intelligent Scheduling*, pp. 423–449. Morgan Kaufmann.
- Dean, T., Basye, K., Chekaluk, R., and Hyun, S.** (1990). Coping with uncertainty in a control system for navigation and exploration. In *AAAI-90*, Vol. 2, pp. 1010–1015.
- Dean, T.** and Boddy, M. (1988). An analysis of time-dependent planning. In *AAAI-88*, pp. 49–54.
- Dean, T., Firby, R. J., and Miller, D.** (1990). Hierarchical planning involving deadlines, travel time, and resources. *Computational Intelligence*, 6(1), 381–398.
- Dean, T., Kaelbling, L. P., Kirman, J., and Nicholson, A.** (1993). Planning with deadlines in stochastic domains. In *AAAI-93*, pp. 574–579.
- Dean, T.** and Kanazawa, K. (1989a). A model for projection and action. In *IJCAI-89*, pp. 985–990.
- Dean, T.** and Kanazawa, K. (1989b). A model for reasoning about persistence and causation. *Computational Intelligence*, 5(3), 142–150.
- Dean, T., Kanazawa, K., and Shewchuk, J.** (1990). Prediction, observation and estimation in planning and control. In *5th IEEE International Symposium on Intelligent Control*, Vol. 2, pp. 645–650.
- Dean, T.** and Wellman, M. P. (1991). *Planning and Control*. Morgan Kaufmann.
- Dearden, R., Friedman, N., and Andre, D.** (1999). Model-based Bayesian exploration. In *UAI-99*.
- Dearden, R., Friedman, N., and Russell, S. J.** (1998). Bayesian q-learning. In *AAAI-98*.
- Debevec, P., Taylor, C., and Malik, J.** (1996). Modeling and rendering architecture from photographs: A hybrid geometry- and image-based approach. In *Proc. 23rd Annual Conference on Computer Graphics (SIGGRAPH)*, pp. 11–20.
- Debreu, G.** (1960). Topological methods in cardinal utility theory. In Arrow, K. J., Karlin, S., and Suppes, P. (Eds.), *Mathematical Methods in the Social Sciences, 1959*. Stanford University Press.
- Dechter, R.** (1990a). Enhancement schemes for constraint processing: Backjumping, learning and cutset decomposition. *AIJ*, 41, 273–312.
- Dechter, R.** (1990b). On the expressiveness of networks with hidden variables. In *AAAI-90*, pp. 379–385.
- Dechter, R.** (1992). Constraint networks. In Shapiro, S. (Ed.), *Encyclopedia of Artificial Intelligence* (2nd edition), pp. 276–285. Wiley and Sons.
- Dechter, R.** (1999). Bucket elimination: A unifying framework for reasoning. *AIJ*, 113, 41–85.
- Dechter, R.** and Pearl, J. (1985). Generalized best-first search strategies and the optimality of A\*. *JACM*, 32(3), 505–536.
- Dechter, R.** and Pearl, J. (1987). Network-based heuristics for constraint-satisfaction problems. *AIJ*, 34(1), 1–38.
- Dechter, R.** and Pearl, J. (1989). Tree clustering for constraint networks. *AIJ*, 38(3), 353–366.
- Dechter, R.** (2003). *Constraint Processing*. Morgan Kaufmann.
- Dechter, R.** and Frost, D. (2002). Backjump-based backtracking for constraint satisfaction problems. *AIJ*, 136(2), 147–188.
- Dechter, R.** and Mateescu, R. (2007). AND/OR search spaces for graphical models. *AIJ*, 171(2–3), 73–106.
- DeCoste, D.** and Schölkopf, B. (2002). Training invariant support vector machines. *Machine Learning*, 46(1), 161–190.
- Dedekind, R.** (1888). *Was sind und was sollen die Zahlen*. Braunschweig, Germany.
- Deerwester, S. C., Dumais, S. T., Landauer, T. K., Furnas, G. W., and Harshman, R. A.** (1990). Indexing by latent semantic analysis. *J. American Society for Information Science*, 41(6), 391–407.
- DeGroot, M. H.** (1970). *Optimal Statistical Decisions*. McGraw-Hill.
- DeGroot, M. H.** and Schervish, M. J. (2001). *Probability and Statistics* (3rd edition). Addison Wesley.
- DeJong, G.** (1981). Generalizations based on explanations. In *IJCAI-81*, pp. 67–69.
- DeJong, G.** (1982). An overview of the FRUMP system. In Lehnert, W. and Ringle, M. (Eds.), *Strategies for Natural Language Processing*, pp. 149–176. Lawrence Erlbaum.
- DeJong, G.** and Mooney, R. (1986). Explanation-based learning: An alternative view. *Machine Learning*, 1, 145–176.
- Del Moral, P., Doucet, A., and Jasra, A.** (2006). Sequential Monte Carlo samplers. *J. Royal Statistical Society, Series B*, 68(3), 411–436.
- Del Moral, P.** (2004). *Feynman-Kac Formulae, Genealogical and Interacting Particle Systems with Applications*. Springer-Verlag.
- Delgrande, J.** and Schaub, T. (2003). On the relation between Reiter's default logic and its (major) variants. In *Seventh European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty*, pp. 452–463.
- Dempster, A. P.** (1968). A generalization of Bayesian inference. *J. Royal Statistical Society*, 30 (Series B), 205–247.
- Dempster, A. P., Laird, N., and Rubin, D.** (1977). Maximum likelihood from incomplete data via the EM algorithm. *J. Royal Statistical Society*, 39 (Series B), 1–38.
- Deng, X.** and Papadimitriou, C. H. (1990). Exploring an unknown graph. In *FOCS-90*, pp. 355–361.
- Denis, F.** (2001). Learning regular languages from simple positive examples. *Machine Learning*, 44(1/2), 37–66.
- Dennett, D. C.** (1984). Cognitive wheels: the frame problem of AI. In Hookway, C. (Ed.), *Minds, Machines, and Evolution: Philosophical Studies*, pp. 129–151. Cambridge University Press.
- Dennett, D. C.** (1991). *Consciousness Explained*. Penguin Press.



- Denney, E., Fischer, B., and Schumann, J.** (2006). An empirical evaluation of automated theorem provers in software certification. *Int. J. AI Tools*, 15(1), 81–107.
- Descartes, R.** (1637). Discourse on method. In Cottingham, J., Stoothoff, R., and Murdoch, D. (Eds.), *The Philosophical Writings of Descartes*, Vol. I. Cambridge University Press, Cambridge, UK.
- Descartes, R.** (1641). Meditations on first philosophy. In Cottingham, J., Stoothoff, R., and Murdoch, D. (Eds.), *The Philosophical Writings of Descartes*, Vol. II. Cambridge University Press, Cambridge, UK.
- Descotte, Y. and Latombe, J.-C.** (1985). Making compromises among antagonist constraints in a planner. *AIJ*, 27, 183–217.
- Detwarasiti, A. and Shachter, R. D.** (2005). Influence diagrams for team decision analysis. *Decision Analysis*, 2(4), 207–228.
- Devroye, L.** (1987). *A course in density estimation*. Birkhauser.
- Dickmanns, E. D. and Zapp, A.** (1987). Autonomous high speed road vehicle guidance by computer vision. In *Automatic Control—World Congress, 1987: Selected Papers from the 10th Triennial World Congress of the International Federation of Automatic Control*, pp. 221–226.
- Dieterich, T.** (1990). Machine learning. *Annual Review of Computer Science*, 4, 255–306.
- Dieterich, T.** (2000). Hierarchical reinforcement learning with the MAXQ value function decomposition. *JAIR*, 13, 227–303.
- Dijkstra, E. W.** (1959). A note on two problems in connexion with graphs. *Numerische Mathematik*, 1, 269–271.
- Dijkstra, E. W.** (1984). The threats to computing science. In *ACM South Central Regional Conference*.
- Dillenburg, J. F. and Nelson, P. C.** (1994). Perimeter search. *AIJ*, 65(1), 165–178.
- Dinh, H., Russell, A., and Su, Y.** (2007). On the value of good advice: The complexity of A\* with accurate heuristics. In *AAAI-07*.
- Dissanayake, G., Newman, P., Clark, S., Durrant-Whyte, H., and Csorba, M.** (2001). A solution to the simultaneous localisation and map building (SLAM) problem. *IEEE Transactions on Robotics and Automation*, 17(3), 229–241.
- Do, M. B. and Kambhampati, S.** (2001). Sapa: A domain-independent heuristic metric temporal planner. In *ECP-01*.
- Do, M. B. and Kambhampati, S.** (2003). Planning as constraint satisfaction: solving the planning graph by compiling it into CSP. *AIJ*, 132(2), 151–182.
- Doctorow, C.** (2001). Metacrap: Putting the torch to seven straw-men of the meta-utopia. [www.well.com/~doctorow/metacrap.htm](http://www.well.com/~doctorow/metacrap.htm).
- Domingos, P. and Pazzani, M.** (1997). On the optimality of the simple Bayesian classifier under zero-one loss. *Machine Learning*, 29, 103–30.
- Domingos, P. and Richardson, M.** (2004). Markov logic: A unifying framework for statistical relational learning. In *Proc. ICML-04 Workshop on Statistical Relational Learning*.
- Donninger, C. and Lorenz, U.** (2004). The chess monster hydra. In *Proc. 14th International Conference on Field-Programmable Logic and Applications*, pp. 927–932.
- Doorenbos, R.** (1994). Combining left and right un-linking for matching a large number of learned rules. In *AAAI-94*.
- Doran, J. and Michie, D.** (1966). Experiments with the graph traverser program. *Proc. Royal Society of London*, 294, Series A, 235–259.
- Dorf, R. C. and Bishop, R. H.** (2004). *Modern Control Systems* (10th edition). Prentice-Hall.
- Doucet, A.** (1997). *Monte Carlo methods for Bayesian estimation of hidden Markov models: Application to radiation signals*. Ph.D. thesis, Université de Paris-Sud.
- Doucet, A., de Freitas, N., and Gordon, N.** (2001). *Sequential Monte Carlo Methods in Practice*. Springer-Verlag.
- Doucet, A., de Freitas, N., Murphy, K., and Russell, S. J.** (2000). Rao-blackwellised particle filtering for dynamic bayesian networks. In *UAI-00*.
- Dowling, W. F. and Gallier, J. H.** (1984). Linear-time algorithms for testing the satisfiability of propositional Horn formulas. *J. Logic Programming*, 1, 267–284.
- Dowty, D., Wall, R., and Peters, S.** (1991). *Introduction to Montague Semantics*. D. Reidel.
- Doyle, J.** (1979). A truth maintenance system. *AIJ*, 12(3), 231–272.
- Doyle, J.** (1983). What is rational psychology? Toward a modern mental philosophy. *AIMag*, 4(3), 50–53.
- Doyle, J. and Patil, R.** (1991). Two theses of knowledge representation: Language restrictions, taxonomic classification, and the utility of representation services. *AIJ*, 48(3), 261–297.
- Drabble, B.** (1990). Mission scheduling for spacecraft: Diaries of T-SCHED. In *Expert Planning Systems*, pp. 76–81. Institute of Electrical Engineers.
- Dredze, M., Crammer, K., and Pereira, F.** (2008). Confidence-weighted linear classification. In *ICML-08*, pp. 264–271.
- Dreyfus, H. L.** (1972). *What Computers Can't Do: A Critique of Artificial Reason*. Harper and Row.
- Dreyfus, H. L.** (1992). *What Computers Still Can't Do: A Critique of Artificial Reason*. MIT Press.
- Dreyfus, H. L. and Dreyfus, S. E.** (1986). *Mind over Machine: The Power of Human Intuition and Expertise in the Era of the Computer*. Blackwell.
- Dreyfus, S. E.** (1969). An appraisal of some shortest-paths algorithms. *Operations Research*, 17, 395–412.
- Dubois, D. and Prade, H.** (1994). A survey of belief revision and updating rules in various uncertainty models. *Int. J. Intelligent Systems*, 9(1), 61–100.
- Duda, R. O., Gaschnig, J., and Hart, P. E.** (1979). Model design in the Prospector consultant system for mineral exploration. In Michie, D. (Ed.), *Expert Systems in the Microelectronic Age*, pp. 153–167. Edinburgh University Press.
- Duda, R. O. and Hart, P. E.** (1973). *Pattern classification and scene analysis*. Wiley.
- Duda, R. O., Hart, P. E., and Stork, D. G.** (2001). *Pattern Classification* (2nd edition). Wiley.
- Dudek, G. and Jenkin, M.** (2000). *Computational Principles of Mobile Robotics*. Cambridge University Press.
- Duffy, D.** (1991). *Principles of Automated Theorem Proving*. John Wiley & Sons.
- Dunn, H. L.** (1946). Record linkage". *Am. J. Public Health*, 36(12), 1412–1416.
- Durfee, E. H. and Lesser, V. R.** (1989). Negotiating task decomposition and allocation using partial global planning. In Huhns, M. and Gasser, L. (Eds.), *Distributed AI*, Vol. 2. Morgan Kaufmann.
- Durme, B. V. and Pasca, M.** (2008). Finding cars, goddesses and enzymes: Parametrizable acquisition of labeled instances for open-domain information extraction. In *AAAI-08*, pp. 1243–1248.
- Dyer, M.** (1983). *In-Depth Understanding*. MIT Press.
- Dyson, G.** (1998). *Darwin among the machines: the evolution of global intelligence*. Perseus Books.
- Duzeroski, S., Muggleton, S. H., and Russell, S. J.** (1992). PAC-learnability of determinate logic programs. In *COLT-92*, pp. 128–135.
- Earley, J.** (1970). An efficient context-free parsing algorithm. *CACM*, 13(2), 94–102.
- Edelkamp, S.** (2009). Scaling search with symbolic pattern databases. In *Model Checking and Artificial Intelligence (MOCHART)*, pp. 49–65.
- Edmonds, J.** (1965). Paths, trees, and flowers. *Canadian Journal of Mathematics*, 17, 449–467.
- Edwards, P. (Ed.)** (1967). *The Encyclopedia of Philosophy*. Macmillan.
- Een, N. and Sörensson, N.** (2003). An extensible SAT-solver. In Giunchiglia, E. and Tacchella, A. (Eds.), *Theory and Applications of Satisfiability Testing: 6th International Conference (SAT 2003)*. Springer-Verlag.
- Eiter, T., Leone, N., Mateis, C., Pfeifer, G., and Scarcello, F.** (1998). The KR system dlv: Progress report, comparisons and benchmarks. In *KR-98*, pp. 406–417.
- Elio, R. (Ed.)** (2002). *Common Sense, Reasoning, and Rationality*. Oxford University Press.
- Elkan, C.** (1993). The paradoxical success of fuzzy logic. In *AAAI-93*, pp. 698–703.
- Elkan, C.** (1997). Boosting and naive Bayesian learning. Tech. rep., Department of Computer Science and Engineering, University of California, San Diego.
- Ellsberg, D.** (1962). *Risk, Ambiguity, and Decision*. Ph.D. thesis, Harvard University.
- Elman, J., Bates, E., Johnson, M., Karmiloff-Smith, A., Parisi, D., and Plunkett, K.** (1997). *Rethinking Innateness*. MIT Press.
- Empson, W.** (1953). *Seven Types of Ambiguity*. New Directions.
- Enderton, H. B.** (1972). *A Mathematical Introduction to Logic*. Academic Press.
- Epstein, R., Roberts, G., and Beber, G. (Eds.)** (2008). *Parsing the Turing Test*. Springer.
- Erdmann, M. A. and Mason, M.** (1988). An exploration of sensorless manipulation. *IEEE Journal of Robotics and Automation*, 4(4), 369–379.
- Ernst, H. A.** (1961). *MH-1, a Computer-Operated Mechanical Hand*. Ph.D. thesis, Massachusetts Institute of Technology.
- Ernst, M., Millstein, T., and Weld, D. S.** (1997). Automatic SAT-compilation of planning problems. In *IJCAI-97*, pp. 1169–1176.
- Erol, K., Hendler, J., and Nau, D. S.** (1994). HTN planning: Complexity and expressivity. In *AAAI-94*, pp. 1123–1128.

- Erol, K., Hendler, J., and Nau, D. S.** (1996). Complexity results for HTN planning. *AIJ*, 18(1), 69–93.
- Etzioni, A.** (2004). *From Empire to Community: A New Approach to International Relation*. Palgrave Macmillan.
- Etzioni, O.** (1989). Tractable decision-analytic control. In *Proc. First International Conference on Knowledge Representation and Reasoning*, pp. 114–125.
- Etzioni, O., Banko, M., Soderland, S., and Weld, D. S.** (2008). Open information extraction from the web. *CACM*, 51(12).
- Etzioni, O., Hanks, S., Weld, D. S., Draper, D., Lesh, N., and Williamson, M.** (1992). An approach to planning with incomplete information. In *KR-92*.
- Etzioni, O. and Weld, D. S.** (1994). A softbot-based interface to the Internet. *CACM*, 37(7), 72–76.
- Etzioni, O., Banko, M., and Cafarella, M. J.** (2006). Machine reading. In *AAAI-06*.
- Etzioni, O., Cafarella, M. J., Downey, D., Popescu, A.-M., Shaked, T., Soderland, S., Weld, D. S., and Yates, A.** (2005). Unsupervised named-entity extraction from the web: An experimental study. *AIJ*, 165(1), 91–134.
- Evans, T. G.** (1968). A program for the solution of a class of geometric-analogy intelligence-test questions. In Minsky, M. L. (Ed.), *Semantic Information Processing*, pp. 271–353. MIT Press.
- Fagin, R., Halpern, J. Y., Moses, Y., and Vardi, M. Y.** (1995). *Reasoning about Knowledge*. MIT Press.
- Fahlman, S. E.** (1974). A planning system for robot construction tasks. *AIJ*, 5(1), 1–49.
- Faugeras, O.** (1993). *Three-Dimensional Computer Vision: A Geometric Viewpoint*. MIT Press.
- Faugeras, O., Luong, Q.-T., and Papadopoulos, T.** (2001). *The Geometry of Multiple Images*. MIT Press.
- Fearing, R. S. and Hollerbach, J. M.** (1985). Basic solid mechanics for tactile sensing. *Int. J. Robotics Research*, 4(3), 40–54.
- Featherstone, R.** (1987). *Robot Dynamics Algorithms*. Kluwer Academic Publishers.
- Feigenbaum, E. A.** (1961). The simulation of verbal learning behavior. *Proc. Western Joint Computer Conference*, 19, 121–131.
- Feigenbaum, E. A., Buchanan, B. G., and Lederberg, J.** (1971). On generality and problem solving: A case study using the DENDRAL program. In Meltzer, B. and Michie, D. (Eds.), *Machine Intelligence 6*, pp. 165–190. Edinburgh University Press.
- Feldman, J. and Sproull, R. F.** (1977). Decision theory and artificial intelligence II: The hungry monkey. Technical report, Computer Science Department, University of Rochester.
- Feldman, J. and Yakimovsky, Y.** (1974). Decision theory and artificial intelligence I: Semantics-based region analyzer. *AIJ*, 5(4), 349–371.
- Fellbaum, C.** (2001). *Wordnet: An Electronic Lexical Database*. MIT Press.
- Fellegi, I. and Sunter, A.** (1969). A theory for record linkage". *JASA*, 64, 1183–1210.
- Felner, A., Korf, R. E., and Hanan, S.** (2004). Additive pattern database heuristics. *JAIR*, 22, 279–318.
- Felner, A., Korf, R. E., Meshulam, R., and Holte, R.** (2007). Compressed pattern databases. *JAIR*, 30, 213–247.
- Felzenszwalb, P. and Huttenlocher, D.** (2000). Efficient matching of pictorial structures. In *CVPR*.
- Felzenszwalb, P. and McAllester, D. A.** (2007). The generalized A\* architecture. *JAIR*.
- Ferguson, T.** (1992). Mate with knight and bishop in kriegspiel. *Theoretical Computer Science*, 96(2), 389–403.
- Ferguson, T.** (1995). Mate with the two bishops in kriegspiel. [www.math.ucla.edu/~tom/papers](http://www.math.ucla.edu/~tom/papers).
- Ferguson, T.** (1973). Bayesian analysis of some nonparametric problems. *Annals of Statistics*, 1(2), 209–230.
- Ferraris, P. and Giunchiglia, E.** (2000). Planning as satisfiability in nondeterministic domains. In *AAAI-00*, pp. 748–753.
- Ferriss, T.** (2007). *The 4-Hour Workweek*. Crown.
- Fikes, R. E., Hart, P. E., and Nilsson, N. J.** (1972). Learning and executing generalized robot plans. *AIJ*, 3(4), 251–288.
- Fikes, R. E. and Nilsson, N. J.** (1971). STRIPS: A new approach to the application of theorem proving to problem solving. *AIJ*, 2(3–4), 189–208.
- Fikes, R. E. and Nilsson, N. J.** (1993). STRIPS, a retrospective. *AIJ*, 59(1–2), 227–232.
- Fine, S., Singer, Y., and Tishby, N.** (1998). The hierarchical hidden markov model: Analysis and applications. *Machine Learning*, 32(41–62).
- Finney, D. J.** (1947). *Probit analysis: A statistical treatment of the sigmoid response curve*. Cambridge University Press.
- Firth, J.** (1957). *Papers in Linguistics*. Oxford University Press.
- Fisher, R. A.** (1922). On the mathematical foundations of theoretical statistics. *Philosophical Transactions of the Royal Society of London, Series A* 222, 309–368.
- Fix, E. and Hodges, J. L.** (1951). Discriminatory analysis—Nonparametric discrimination: Consistency properties. Tech. rep. 21-49-004, USAF School of Aviation Medicine.
- Floreano, D., Zufferey, J. C., Srinivasan, M. V., and Ellington, C.** (2009). *Flying Insects and Robots*. Springer.
- Fogel, D. B.** (2000). *Evolutionary Computation: Toward a New Philosophy of Machine Intelligence*. IEEE Press.
- Fogel, L. J., Owens, A. J., and Walsh, M. J.** (1966). *Artificial Intelligence through Simulated Evolution*. Wiley.
- Foo, N.** (2001). Why engineering models do not have a frame problem. In *Discrete event modeling and simulation technologies: a tapestry of systems and AI-based theories and methodologies*. Springer.
- Forbes, J.** (2002). *Learning Optimal Control for Autonomous Vehicles*. Ph.D. thesis, University of California.
- Forbus, K. D.** (1985). Qualitative process theory. In Bobrow, D. (Ed.), *Qualitative Reasoning About Physical Systems*, pp. 85–186. MIT Press.
- Forbus, K. D. and de Kleer, J.** (1993). *Building Problem Solvers*. MIT Press.
- Ford, K. M. and Hayes, P. J.** (1995). Turing Test considered harmful. In *IJCAI-95*, pp. 972–977.
- Forestier, J.-P. and Varaiya, P.** (1978). Multilayer control of large Markov chains. *IEEE Transactions on Automatic Control*, 23(2), 298–304.
- Forgy, C.** (1981). OPS5 user's manual. Technical report CMU-CS-81-135, Computer Science Department, Carnegie-Mellon University.
- Forgy, C.** (1982). A fast algorithm for the many patterns/many objects match problem. *AIJ*, 19(1), 17–37.
- Forsyth, D. and Ponce, J.** (2002). *Computer Vision: A Modern Approach*. Prentice Hall.
- Fourier, J.** (1827). Analyse des travaux de l'Académie Royale des Sciences, pendant l'année 1824; partie mathématique. *Histoire de l'Académie Royale des Sciences de France*, 7, xlvi–lv.
- Fox, C. and Tversky, A.** (1995). Ambiguity aversion and comparative ignorance. *Quarterly Journal of Economics*, 110(3), 585–603.
- Fox, D., Burgard, W., Dellaert, F., and Thrun, S.** (1999). Monte carlo localization: Efficient position estimation for mobile robots. In *AAAI-99*.
- Fox, M. S.** (1990). Constraint-guided scheduling: A short history of research at CMU. *Computers in Industry*, 14(1–3), 79–88.
- Fox, M. S., Allen, B., and Strohm, G.** (1982). Job shop scheduling: An investigation in constraint-directed reasoning. In *AAAI-82*, pp. 155–158.
- Fox, M. S. and Long, D.** (1998). The automatic inference of state invariants in TIM. *JAIR*, 9, 367–421.
- Franco, J. and Paull, M.** (1983). Probabilistic analysis of the Davis Putnam procedure for solving the satisfiability problem. *Discrete Applied Mathematics*, 5, 77–87.
- Frank, I., Basin, D. A., and Matsubara, H.** (1998). Finding optimal strategies for imperfect information games. In *AAAI-98*, pp. 500–507.
- Frank, R. H. and Cook, P. J.** (1996). *The Winner-Take-All Society*. Penguin.
- Franz, A.** (1996). *Automatic Ambiguity resolution in Natural Language Processing: An Empirical Approach*. Springer.
- Franz, A. and Brants, T.** (2006). All our n-gram are belong to you. Blog posting.
- Frege, G.** (1879). *Begriffsschrift, eine der arithmetischen nachgebildete Formelsprache des reinen Denkens*. Halle, Berlin. English translation appears in van Heijenoort (1967).
- Freitag, D. and McCallum, A.** (2000). Information extraction with hmm structures learned by stochastic optimization. In *AAAI-00*.
- Freuder, E. C.** (1978). Synthesizing constraint expressions. *CACM*, 21(11), 958–966.
- Freuder, E. C.** (1982). A sufficient condition for backtrack-free search. *JACM*, 29(1), 24–32.
- Freuder, E. C.** (1985). A sufficient condition for backtrack-free search. *JACM*, 32(4), 755–761.
- Freuder, E. C. and Mackworth, A. K.** (Eds.). (1994). *Constraint-based reasoning*. MIT Press.
- Freund, Y. and Schapire, R. E.** (1996). Experiments with a new boosting algorithm. In *ICML-96*.
- Freund, Y. and Schapire, R. E.** (1999). Large margin classification using the perceptron algorithm. *Machine Learning*, 37(3), 277–296.
- Friedberg, R. M.** (1958). A learning machine: Part I. *IBM Journal of Research and Development*, 2, 2–13.
- Friedberg, R. M., Dunham, B., and North, T.** (1959). A learning machine: Part II. *IBM Journal of Research and Development*, 3(3), 282–287.

- Friedgut, E.** (1999). Necessary and sufficient conditions for sharp thresholds of graph properties, and the k-SAT problem. *J. American Mathematical Society*, 12, 1017–1054.
- Friedman, G. J.** (1959). Digital simulation of an evolutionary process. *General Systems Yearbook*, 4, 171–184.
- Friedman, J., Hastie, T., and Tibshirani, R.** (2000). Additive logistic regression: A statistical view of boosting. *Annals of Statistics*, 28(2), 337–374.
- Friedman, N.** (1998). The Bayesian structural EM algorithm. In *UAI-98*.
- Friedman, N.** and Goldszmidt, M. (1996). Learning Bayesian networks with local structure. In *UAI-96*, pp. 252–262.
- Friedman, N.** and Koller, D. (2003). Being Bayesian about Bayesian network structure: A Bayesian approach to structure discovery in Bayesian networks. *Machine Learning*, 50, 95–125.
- Friedman, N., Murphy, K., and Russell, S. J.** (1998). Learning the structure of dynamic probabilistic networks. In *UAI-98*.
- Friedman, N.** (2004). Inferring cellular networks using probabilistic graphical models. *Science*, 303(5659), 799–805.
- Fruhwirth, T.** and Abdennadher, S. (2003). *Essentials of constraint programming*. Cambridge University Press.
- Fuchs, J. J., Gasquet, A., Olalinty, B., and Currie, K. W.** (1990). PlanERS-1: An expert planning system for generating spacecraft mission plans. In *First International Conference on Expert Planning Systems*, pp. 70–75. Institute of Electrical Engineers.
- Fudenberg, D.** and Tirole, J. (1991). *Game theory*. MIT Press.
- Fukunaga, A. S., Rabideau, G., Chien, S., and Yan, D.** (1997). ASPEN: A framework for automated planning and scheduling of spacecraft control and operations. In *Proc. International Symposium on AI, Robotics and Automation in Space*, pp. 181–187.
- Fung, R.** and Chang, K. C. (1989). Weighting and integrating evidence for stochastic simulation in Bayesian networks. In *UAI-98*, pp. 209–220.
- Gaddum, J. H.** (1933). Reports on biological standard III: Methods of biological assay depending on a quantal response. Special report series of the medical research council 183, Medical Research Council.
- Gaifman, H.** (1964). Concerning measures in first order calculi. *Israel Journal of Mathematics*, 2, 1–18.
- Gallaire, H.** and Minker, J. (Eds.). (1978). *Logic and Databases*. Plenum.
- Gallier, J. H.** (1986). *Logic for Computer Science: Foundations of Automatic Theorem Proving*. Harper and Row.
- Gamba, A., Gamberini, L., Palmieri, G., and Sanna, R.** (1961). Further experiments with PAPA. *Nuovo Cimento Supplemento*, 20(2), 221–231.
- Garding, J.** (1992). Shape from texture for smooth curved surfaces in perspective projection. *J. Mathematical Imaging and Vision*, 2(4), 327–350.
- Gardner, M.** (1968). *Logic Machines, Diagrams and Boolean Algebra*. Dover.
- Garey, M. R.** and Johnson, D. S. (1979). *Computers and Intractability*. W. H. Freeman.
- Gaschnig, J.** (1977). A general backtrack algorithm that eliminates most redundant tests. In *IJCAI-77*, p. 457.
- Gaschnig, J.** (1979). Performance measurement and analysis of certain search algorithms. Technical report CMU-CS-79-124, Computer Science Department, Carnegie-Mellon University.
- Gasser, R.** (1995). *Efficiently harnessing computational resources for exhaustive search*. Ph.D. thesis, ETH Zürich.
- Gasser, R.** (1998). Solving nine men’s morris. In Nowakowski, R. (Ed.), *Games of No Chance*. Cambridge University Press.
- Gat, E.** (1998). Three-layered architectures. In Kortenkamp, D., Bonasso, R. P., and Murphy, R. (Eds.), *AI-based Mobile Robots: Case Studies of Successful Robot Systems*, pp. 195–210. MIT Press.
- Gauss, C. F.** (1809). *Theoria Motus Corporum Coelestium in Sectionibus Conicis Solem Ambientium*. Sumtibus F. Perthes et I. H. Besser, Hamburg.
- Gauss, C. F.** (1829). Beiträge zur theorie der algebraischen gleichungen. Collected in *Werke*, Vol. 3, pages 71–102. K. Gesellschaft Wissenschaft, Göttingen, Germany, 1876.
- Gawande, A.** (2002). *Complications: A Surgeon’s Notes on an Imperfect Science*. Metropolitan Books.
- Geiger, D., Verma, T., and Pearl, J.** (1990). Identifying independence in Bayesian networks. *Networks*, 20(5), 507–534.
- Geisel, T.** (1955). *On Beyond Zebra*. Random House.
- Gelb, A.** (1974). *Applied Optimal Estimation*. MIT Press.
- Gelernter, H.** (1959). Realization of a geometry-theorem proving machine. In *Proc. an International Conference on Information Processing*, pp. 273–282. UNESCO House.
- Gelfond, M.** and Lifschitz, V. (1988). Compiling circumscriptive theories into logic programs. In *Non-Monotonic Reasoning: 2nd International Workshop Proceedings*, pp. 74–99.
- Gelfond, M.** (2008). Answer sets. In van Harmelan, F., Lifschitz, V., and Porter, B. (Eds.), *Handbook of Knowledge Representation*, pp. 285–316. Elsevier.
- Gelly, S.** and Silver, D. (2008). Achieving master level play in 9 x 9 computer go. In *AAAI-08*, pp. 1537–1540.
- Gelman, A., Carlin, J. B., Stern, H. S., and Rubin, D.** (1995). *Bayesian Data Analysis*. Chapman & Hall.
- Geman, S.** and Geman, D. (1984). Stochastic relaxation, Gibbs distributions, and Bayesian restoration of images. *PAMI*, 6(6), 721–741.
- Genesereth, M. R.** (1984). The use of design descriptions in automated diagnosis. *AIJ*, 24(1–3), 411–436.
- Genesereth, M. R.** and Nilsson, N. J. (1987). *Logical Foundations of Artificial Intelligence*. Morgan Kaufmann.
- Genesereth, M. R.** and Nourbakhsh, I. (1993). Time-saving tips for problem solving with incomplete information. In *AAAI-93*, pp. 724–730.
- Genesereth, M. R.** and Smith, D. E. (1981). Meta-level architecture. Memo HPP-81-6, Computer Science Department, Stanford University.
- Gent, I., Petrie, K., and Puget, J.-F.** (2006). Symmetry in constraint programming. In Rossi, F., van Beek, P., and Walsh, T. (Eds.), *Handbook of Constraint Programming*. Elsevier.
- Gentner, D.** (1983). Structure mapping: A theoretical framework for analogy. *Cognitive Science*, 7, 155–170.
- Gentner, D.** and Goldin-Meadow, S. (Eds.). (2003). *Language in mind: Advances in the study of language and thought*. MIT Press.
- Gerevini, A.** and Long, D. (2005). Plan constraints and preferences in PDDL3. Tech. rep., Dept. of Electronics for Automation, University of Brescia, Italy.
- Gerevini, A.** and Serina, I. (2002). LPG: A planner based on planning graphs with action costs. In *ICAPS-02*, pp. 281–290.
- Gerevini, A.** and Serina, I. (2003). Planning as propositional CSP: from walksat to local search for action graphs. *Constraints*, 8, 389–413.
- Gershwin, G.** (1937). Let’s call the whole thing off. Song.
- Getoor, L.** and Taskar, B. (Eds.). (2007). *Introduction to Statistical Relational Learning*. MIT Press.
- Ghahramani, Z.** and Jordan, M. I. (1997). Factorial hidden Markov models. *Machine Learning*, 29, 245–274.
- Ghahramani, Z.** (1998). Learning dynamic bayesian networks. In *Adaptive Processing of Sequences and Data Structures*, pp. 168–197.
- Ghahramani, Z.** (2005). Tutorial on nonparametric Bayesian methods. Tutorial presentation at the UAI Conference.
- Ghallab, M., Howe, A., Knoblock, C. A., and McDermott, D.** (1998). PDDL—The planning domain definition language. Tech. rep. DCS TR-1165, Yale Center for Computational Vision and Control.
- Ghallab, M.** and Laruelle, H. (1994). Representation and control in IxTeT, a temporal planner. In *AIPS-94*, pp. 61–67.
- Ghallab, M., Nau, D. S., and Traverso, P.** (2004). *Automated Planning: Theory and practice*. Morgan Kaufmann.
- Gibbs, R. W.** (2006). Metaphor interpretation as embodied simulation. *Mind*, 21(3), 434–458.
- Gibson, J. J.** (1950). *The Perception of the Visual World*. Houghton Mifflin.
- Gibson, J. J.** (1979). *The Ecological Approach to Visual Perception*. Houghton Mifflin.
- Gilks, W. R., Richardson, S., and Spiegelhalter, D. J.** (Eds.). (1996). *Markov chain Monte Carlo in practice*. Chapman and Hall.
- Gilks, W. R., Thomas, A., and Spiegelhalter, D. J.** (1994). A language and program for complex Bayesian modelling. *The Statistician*, 43, 169–178.
- Gilmore, P. C.** (1960). A proof method for quantification theory: Its justification and realization. *IBM Journal of Research and Development*, 4, 28–35.
- Ginsberg, M. L.** (1993). *Essentials of Artificial Intelligence*. Morgan Kaufmann.
- Ginsberg, M. L.** (1999). GIB: Steps toward an expert-level bridge-playing program. In *IJCAI-99*, pp. 584–589.
- Ginsberg, M. L., Frank, M., Halpin, M. P., and Torrance, M. C.** (1990). Search lessons learned from crossword puzzles. In *AAAI-90*, Vol. 1, pp. 210–215.
- Ginsberg, M. L.** (2001). GIB: Imperfect information in a computationally challenging game. *JAIR*, 14, 303–358.
- Gionis, A., Indyk, P., and Motwani, R.** (1999). Similarity search in high dimensions vis hashing. In *Proc. 25th Very Large Database (VLDB) Conference*.

- Gittins, J. C.** (1989). *Multi-Armed Bandit Allocation Indices*. Wiley.
- Glanc, A.** (1978). On the etymology of the word "robot". *SIGART Newsletter*, 67, 12.
- Glover, F.** and Laguna, M. (Eds.). (1997). *Tabu search*. Kluwer.
- Gödel, K.** (1930). *Über die Vollständigkeit des Logikkalküls*. Ph.D. thesis, University of Vienna.
- Gödel, K.** (1931). Über formal unentscheidbare Sätze der Principia mathematica und verwandter Systeme I. *Monatshefte für Mathematik und Physik*, 38, 173–198.
- Goebel, J., Volk, K., Walker, H., and Gerbault, F.** (1989). Automatic classification of spectra from the infrared astronomical satellite (IRAS). *Astronomy and Astrophysics*, 222, L5–L8.
- Goertzel, B.** and Pennachin, C. (2007). *Artificial General Intelligence*. Springer.
- Gold, B.** and Morgan, N. (2000). *Speech and Audio Signal Processing*. Wiley.
- Gold, E. M.** (1967). Language identification in the limit. *Information and Control*, 10, 447–474.
- Goldberg, A. V., Kaplan, H., and Werneck, R. F.** (2006). Reach for a\*: Efficient point-to-point shortest path algorithms. In *Workshop on algorithm engineering and experiments*, pp. 129–143.
- Goldman, R.** and Boddy, M. (1996). Expressive planning and explicit knowledge. In *AIPS-96*, pp. 110–117.
- Goldszmidt, M.** and Pearl, J. (1996). Qualitative probabilities for default reasoning, belief revision, and causal modeling. *AIJ*, 84(1–2), 57–112.
- Golomb, S.** and Baumert, L. (1965). Backtrack programming. *JACM*, 14, 516–524.
- Golub, G., Heath, M., and Wahba, G.** (1979). Generalized cross-validation as a method for choosing a good ridge parameter. *Technometrics*, 21(2).
- Gomes, C., Selman, B., Crato, N., and Kautz, H.** (2000). Heavy-tailed phenomena in satisfiability and constraint processing. *JAR*, 24, 67–100.
- Gomes, C., Kautz, H., Sabharwal, A., and Selman, B.** (2008). Satisfiability solvers. In van Harmelen, F., Lifschitz, V., and Porter, B. (Eds.), *Handbook of Knowledge Representation*. Elsevier.
- Gomes, C.** and Selman, B. (2001). Algorithm portfolios. *AIJ*, 126, 43–62.
- Gomes, C., Selman, B., and Kautz, H.** (1998). Boosting combinatorial search through randomization. In *AAAI-98*, pp. 431–437.
- Gonthier, G.** (2008). Formal proof—The four-color theorem. *Notices of the AMS*, 55(11), 1382–1393.
- Good, I. J.** (1961). A causal calculus. *British Journal of the Philosophy of Science*, 11, 305–318.
- Good, I. J.** (1965). Speculations concerning the first ultraintelligent machine. In Alt, F. L. and Rubinoﬀ, M. (Eds.), *Advances in Computers*, Vol. 6, pp. 31–88. Academic Press.
- Good, I. J.** (1983). *Good Thinking: The Foundations of Probability and Its Applications*. University of Minnesota Press.
- Goodman, D.** and Keene, R. (1997). *Man versus Machine: Kasparov versus Deep Blue*. H3 Publications.
- Goodman, J.** (2001). A bit of progress in language modeling. Tech. rep. MSR-TR-2001-72, Microsoft Research.
- Goodman, J.** and Heckerman, D. (2004). Fighting spam with statistics. *Significance, the Magazine of the Royal Statistical Society*, 1, 69–72.
- Goodman, N.** (1954). *Fact, Fiction and Forecast*. University of London Press.
- Goodman, N.** (1977). *The Structure of Appearance* (3rd edition). D. Reidel.
- Gopnik, A.** and Glymour, C. (2002). Causal maps and bayes nets: A cognitive and computational account of theory-formation. In Caruthers, P., Stich, S., and Siegal, M. (Eds.), *The Cognitive Basis of Science*. Cambridge University Press.
- Gordon, D. M.** (2000). *Ants at Work*. Norton.
- Gordon, D. M.** (2007). Control without hierarchy. *Nature*, 446(8), 143.
- Gordon, M. J., Milner, A. J., and Wadsworth, C. P.** (1979). *Edinburgh LCF*. Springer-Verlag.
- Gordon, N.** (1994). *Bayesian methods for tracking*. Ph.D. thesis, Imperial College.
- Gordon, N., Salmond, D. J., and Smith, A. F. M.** (1993). Novel approach to nonlinear/non-Gaussian Bayesian state estimation. *IEE Proceedings F (Radar and Signal Processing)*, 140(2), 107–113.
- Gorry, G. A.** (1968). Strategies for computer-aided diagnosis. *Mathematical Biosciences*, 2(3–4), 293–318.
- Gorry, G. A., Kassirer, J. P., Essig, A., and Schwartz, W. B.** (1973). Decision analysis as the basis for computer-aided management of acute renal failure. *American Journal of Medicine*, 55, 473–484.
- Gottlob, G., Leone, N., and Scarcello, F.** (1999a). A comparison of structural CSP decomposition methods. In *IJCAI-99*, pp. 394–399.
- Gottlob, G., Leone, N., and Scarcello, F.** (1999b). Hypertree decompositions and tractable queries. In *PODS-99*, pp. 21–32.
- Graham, S. L., Harrison, M. A., and Ruzzo, W. L.** (1980). An improved context-free recognizer. *ACM Transactions on Programming Languages and Systems*, 2(3), 415–462.
- Grama, A.** and Kumar, V. (1995). A survey of parallel search algorithms for discrete optimization problems. *ORSA Journal of Computing*, 7(4), 365–385.
- Grassmann, H.** (1861). *Lehrbuch der Arithmetik*. Th. Chr. Fr. Enslin, Berlin.
- Grayson, C. J.** (1960). Decisions under uncertainty: Drilling decisions by oil and gas operators. Tech. rep., Division of Research, Harvard Business School.
- Green, B., Wolf, A., Chomsky, C., and Laugherty, K.** (1961). BASEBALL: An automatic question answerer. In *Proc. Western Joint Computer Conference*, pp. 219–224.
- Green, C.** (1969a). Application of theorem proving to problem solving. In *IJCAI-69*, pp. 219–239.
- Green, C.** (1969b). Theorem-proving by resolution as a basis for question-answering systems. In Meltzer, B., Michie, D., and Swann, M. (Eds.), *Machine Intelligence 4*, pp. 183–205. Edinburgh University Press.
- Green, C.** and Raphael, B. (1968). The use of theorem-proving techniques in question-answering systems. In *Proc. 23rd ACM National Conference*.
- Greenblatt, R. D., Eastlake, D. E., and Crocker, S. D.** (1967). The Greenblatt chess program. In *Proc. Fall Joint Computer Conference*, pp. 801–810.
- Greiner, R.** (1989). Towards a formal analysis of EBL. In *ICML-89*, pp. 450–453.
- Grinstead, C.** and Snell, J. (1997). *Introduction to Probability*. AMS.
- Grove, W.** and Meehl, P. (1996). Comparative efficiency of informal (subjective, impressionistic) and formal (mechanical, algorithmic) prediction procedures: The clinical statistical controversy. *Psychology, Public Policy, and Law*, 2, 293–323.
- Gruber, T.** (2004). Interview of Tom Gruber. *AIS SIGSEMIS Bulletin*, 1(3).
- Gu, J.** (1989). *Parallel Algorithms and Architectures for Very Fast AI Search*. Ph.D. thesis, University of Utah.
- Guard, J., Oglesby, F., Bennett, J., and Settle, L.** (1969). Semi-automated mathematics. *JACM*, 16, 49–62.
- Guestrin, C., Koller, D., Gearhart, C., and Kanodia, N.** (2003a). Generalizing plans to new environments in relational MDPs. In *IJCAI-03*.
- Guestrin, C., Koller, D., Parr, R., and Venkataraman, S.** (2003b). Efficient solution algorithms for factored MDPs. *JAIR*, 19, 399–468.
- Guestrin, C., Lagoudakis, M. G., and Parr, R.** (2002). Coordinated reinforcement learning. In *ICML-02*, pp. 227–234.
- Guibas, L. J., Knuth, D. E., and Sharir, M.** (1992). Randomized incremental construction of Delaunay and Voronoi diagrams. *Algorithmica*, 7, 381–413. See also *17th Int. Coll. on Automata, Languages and Programming*, 1990, pp. 414–431.
- Gumperz, J.** and Levinson, S. (1996). *Rethinking Linguistic Relativity*. Cambridge University Press.
- Guyon, I.** and Elisseeff, A. (2003). An introduction to variable and feature selection. *JMLR*, pp. 1157–1182.
- Hacking, I.** (1975). *The Emergence of Probability*. Cambridge University Press.
- Haghighi, A.** and Klein, D. (2006). Prototype-driven grammar induction. In *COLING-06*.
- Hald, A.** (1990). *A History of Probability and Statistics and Their Applications before 1750*. Wiley.
- Halevy, A.** (2007). Dataspaces: A new paradigm for data integration. In *Brazilian Symposium on Databases*.
- Halevy, A., Norvig, P., and Pereira, F.** (2009). The unreasonable effectiveness of data. *IEEE Intelligent Systems*, March/April, 8–12.
- Halpern, J. Y.** (1990). An analysis of first-order logics of probability. *AIJ*, 46(3), 311–350.
- Halpern, J. Y.** (1999). Technical addendum, Cox's theorem revisited. *JAIR*, 11, 429–435.
- Halpern, J. Y.** and Weissman, V. (2008). Using first-order logic to reason about policies. *ACM Transactions on Information and System Security*, 11(4).
- Hamming, R. W.** (1991). *The Art of Probability for Scientists and Engineers*. Addison-Wesley.
- Hammond, K.** (1989). *Case-Based Planning: Viewing Planning as a Memory Task*. Academic Press.
- Hamscher, W., Console, L., and Kleer, J. D.** (1992). *Readings in Model-based Diagnosis*. Morgan Kaufmann.
- Han, X.** and Boyden, E. (2007). Multiple-color optical activation, silencing, and desynchronization of neural activity, with single-spike temporal resolution. *PLoS One*, e299.
- Hand, D., Mannila, H., and Smyth, P.** (2001). *Principles of Data Mining*. MIT Press.

- Handschin, J. E.** and Mayne, D. Q. (1969). Monte Carlo techniques to estimate the conditional expectation in multi-stage nonlinear filtering. *Int. J. Control*, 9(5), 547–559.
- Hansen, E.** (1998). Solving POMDPs by searching in policy space. In *UAI-98*, pp. 211–219.
- Hansen, E.** and Zilberstein, S. (2001). LAO\*: a heuristic search algorithm that finds solutions with loops. *AIJ*, 129(1–2), 35–62.
- Hansen, P.** and Jaumard, B. (1990). Algorithms for the maximum satisfiability problem. *Computing*, 44(4), 279–303.
- Hanski, I.** and Cambefort, Y. (Eds.). (1991). *Dung Beetle Ecology*. Princeton University Press.
- Hansson, O.** and Mayer, A. (1989). Heuristic search as evidential reasoning. In *UAI 5*.
- Hansson, O.**, Mayer, A., and Yung, M. (1992). Criticizing solutions to relaxed models yields powerful admissible heuristics. *Information Sciences*, 63(3), 207–227.
- Haralick, R. M.** and Elliot, G. L. (1980). Increasing tree search efficiency for constraint satisfaction problems. *AIJ*, 14(3), 263–313.
- Hardin, G.** (1968). The tragedy of the commons. *Science*, 162, 1243–1248.
- Hardy, G. H.** (1940). *A Mathematician's Apology*. Cambridge University Press.
- Harman, G. H.** (1983). *Change in View: Principles of Reasoning*. MIT Press.
- Harris, Z.** (1954). Distributional structure. *Word*, 10(2/3).
- Harrison, J. R.** and March, J. G. (1984). Decision making and postdecision surprises. *Administrative Science Quarterly*, 29, 26–42.
- Harsanyi, J.** (1967). Games with incomplete information played by Bayesian players. *Management Science*, 14, 159–182.
- Hart, P. E.**, Nilsson, N. J., and Raphael, B. (1968). A formal basis for the heuristic determination of minimum cost paths. *IEEE Transactions on Systems Science and Cybernetics*, SSC-4(2), 100–107.
- Hart, P. E.**, Nilsson, N. J., and Raphael, B. (1972). Correction to “A formal basis for the heuristic determination of minimum cost paths”. *SIGART Newsletter*, 37, 28–29.
- Hart, T. P.** and Edwards, D. J. (1961). The tree prune (TP) algorithm. Artificial intelligence project memo 30, Massachusetts Institute of Technology.
- Hartley, H.** (1958). Maximum likelihood estimation from incomplete data. *Biometrics*, 14, 174–194.
- Hartley, R.** and Zisserman, A. (2000). *Multiple view geometry in computer vision*. Cambridge University Press.
- Haslum, P.**, Botea, A., Helmert, M., Bonet, B., and Koenig, S. (2007). Domain-independent construction of pattern database heuristics for cost-optimal planning. In *AAAI-07*, pp. 1007–1012.
- Haslum, P.** and Geffner, H. (2001). Heuristic planning with time and resources. In *Proc. IJCAI-01 Workshop on Planning with Resources*.
- Haslum, P.** (2006). Improving heuristics through relaxed search – An analysis of TP4 and HSP\*a in the 2004 planning competition. *JAIR*, 25, 233–267.
- Haslum, P.**, Bonet, B., and Geffner, H. (2005). New admissible heuristics for domain-independent planning. In *AAAI-05*.
- Hastie, T.** and Tibshirani, R. (1996). Discriminant adaptive nearest neighbor classification and regression. In Touretzky, D. S., Mozer, M. C., and Hasselmo, M. E. (Eds.), *NIPS 8*, pp. 409–15. MIT Press.
- Hastie, T.**, Tibshirani, R., and Friedman, J. (2001). *The Elements of Statistical Learning: Data Mining, Inference and Prediction* (2nd edition). Springer-Verlag.
- Hastie, T.**, Tibshirani, R., and Friedman, J. (2009). *The Elements of Statistical Learning: Data Mining, Inference and Prediction* (2nd edition). Springer-Verlag.
- Haugeland, J.** (Ed.). (1985). *Artificial Intelligence: The Very Idea*. MIT Press.
- Hauk, T.** (2004). *Search in Trees with Chance Nodes*. Ph.D. thesis, Univ. of Alberta.
- Hausler, D.** (1989). Learning conjunctive concepts in structural domains. *Machine Learning*, 4(1), 7–40.
- Havelund, K.**, Lowry, M., Park, S., Pecheur, C., Penix, J., Visser, W., and White, J. L. (2000). Formal analysis of the remote agent before and after flight. In *Proc. 5th NASA Langley Formal Methods Workshop*.
- Havenstein, H.** (2005). Spring comes to AI winter. *Computer World*.
- Hawkins, J.** and Blakeslee, S. (2004). *On Intelligence*. Henry Holt and Co.
- Hayes, P. J.** (1978). The naive physics manifesto. In Michie, D. (Ed.), *Expert Systems in the Microelectronic Age*. Edinburgh University Press.
- Hayes, P. J.** (1979). The logic of frames. In Metzger, D. (Ed.), *Frame Conceptions and Text Understanding*, pp. 46–61. de Gruyter.
- Hayes, P. J.** (1985a). Naive physics I: Ontology for liquids. In Hobbs, J. R. and Moore, R. C. (Eds.), *Formal Theories of the Commonsense World*, chap. 3, pp. 71–107. Ablex.
- Hayes, P. J.** (1985b). The second naive physics manifesto. In Hobbs, J. R. and Moore, R. C. (Eds.), *Formal Theories of the Commonsense World*, chap. 1, pp. 1–36. Ablex.
- Haykin, S.** (2008). *Neural Networks: A Comprehensive Foundation*. Prentice Hall.
- Hays, J.** and Efros, A. A. (2007). Scene completion Using millions of photographs. *ACM Transactions on Graphics (SIGGRAPH)*, 26(3).
- Hearst, M. A.** (1992). Automatic acquisition of hyponyms from large text corpora. In *COLING-92*.
- Hearst, M. A.** (2009). *Search User Interfaces*. Cambridge University Press.
- Hebb, D. O.** (1949). *The Organization of Behavior*. Wiley.
- Heckerman, D.** (1986). Probabilistic interpretation for MYCIN's certainty factors. In Kanal, L. N. and Lemmer, J. F. (Eds.), *UAI 2*, pp. 167–196. Elsevier/North-Holland.
- Heckerman, D.** (1991). *Probabilistic Similarity Networks*. MIT Press.
- Heckerman, D.** (1998). A tutorial on learning with Bayesian networks. In Jordan, M. I. (Ed.), *Learning in graphical models*. Kluwer.
- Heckerman, D.**, Geiger, D., and Chickering, D. M. (1994). Learning Bayesian networks: The combination of knowledge and statistical data. Technical report MSR-TR-94-09, Microsoft Research.
- Heidegger, M.** (1927). *Being and Time*. SCM Press.
- Heinz, E. A.** (2000). *Scalable search in computer chess*. Vieweg.
- Held, M.** and Karp, R. M. (1970). The traveling salesman problem and minimum spanning trees. *Operations Research*, 18, 1138–1162.
- Helmert, M.** (2001). On the complexity of planning in transportation domains. In *ECP-01*.
- Helmert, M.** (2003). Complexity results for standard benchmark domains in planning. *AIJ*, 143(2), 219–262.
- Helmert, M.** (2006). The fast downward planning system. *JAIR*, 26, 191–246.
- Helmert, M.** and Richter, S. (2004). Fast downward – Making use of causal dependencies in the problem representation. In *Proc. International Planning Competition at ICAPS*, pp. 41–43.
- Helmert, M.** and Röger, G. (2008). How good is almost perfect? In *AAAI-08*.
- Hendler, J.**, Carbonell, J. G., Lenat, D. B., Mizoguchi, R., and Rosenbloom, P. S. (1995). VERY large knowledge bases – Architecture vs engineering. In *IJCAI-95*, pp. 2033–2036.
- Henrion, M.** (1988). Propagation of uncertainty in Bayesian networks by probabilistic logic sampling. In Lemmer, J. F. and Kanal, L. N. (Eds.), *UAI 2*, pp. 149–163. Elsevier/North-Holland.
- Henzinger, T. A.** and Sastry, S. (Eds.). (1998). *Hybrid systems: Computation and control*. Springer-Verlag.
- Herbrand, J.** (1930). *Recherches sur la Théorie de la Démonstration*. Ph.D. thesis, University of Paris.
- Hewitt, C.** (1969). PLANNER: a language for proving theorems in robots. In *IJCAI-69*, pp. 295–301.
- Hierholzer, C.** (1873). Über die Möglichkeit, einen Linienzug ohne Wiederholung und ohne Unterbrechung zu umfahren. *Mathematische Annalen*, 6, 30–32.
- Hilgard, E. R.** and Bower, G. H. (1975). *Theories of Learning* (4th edition). Prentice-Hall.
- Hintikka, J.** (1962). *Knowledge and Belief*. Cornell University Press.
- Hinton, G. E.** and Anderson, J. A. (1981). *Parallel Models of Associative Memory*. Lawrence Erlbaum Associates.
- Hinton, G. E.** and Nowlan, S. J. (1987). How learning can guide evolution. *Complex Systems*, 1(3), 495–502.
- Hinton, G. E.**, Osindero, S., and Teh, Y. W. (2006). A fast learning algorithm for deep belief nets. *Neural Computation*, 18, 1527–1554.
- Hinton, G. E.** and Sejnowski, T. (1983). Optimal perceptual inference. In *CVPR*, pp. 448–453.
- Hinton, G. E.** and Sejnowski, T. (1986). Learning and relearning in Boltzmann machines. In Rumelhart, D. E. and McClelland, J. L. (Eds.), *Parallel Distributed Processing*, chap. 7, pp. 282–317. MIT Press.
- Hirsh, H.** (1987). Explanation-based generalization in a logic programming environment. In *IJCAI-87*.
- Hobbs, J. R.** (1990). *Literature and Cognition*. CSLI Press.
- Hobbs, J. R.**, Appelt, D., Bear, J., Israel, D., Kameyama, M., Stickel, M. E., and Tyson, M. (1997). FASTUS: A cascaded finite-state transducer for extracting information from natural-language text. In Roche, E. and Schabes, Y. (Eds.), *Finite-State Devices for Natural Language Processing*, pp. 383–406. MIT Press.

- Hobbs, J. R.** and Moore, R. C. (Eds.). (1985). *Formal Theories of the Commonsense World*. Ablex.
- Hobbs, J. R.**, Stickel, M. E., Appelt, D., and Martin, P. (1993). Interpretation as abduction. *AIJ*, 63(1–2), 69–142.
- Hoffmann, J.** (2001). FF: The fast-forward planning system. *AIMag*, 22(3), 57–62.
- Hoffmann, J.** and Brafman, R. I. (2006). Conformant planning via heuristic forward search: A new approach. *AIJ*, 170(6–7), 507–541.
- Hoffmann, J.** and Brafman, R. I. (2005). Contingent planning via heuristic forward search with implicit belief states. In *ICAPS-05*.
- Hoffmann, J.** (2005). Where “ignoring delete lists” works: Local search topology in planning benchmarks. *JAIR*, 24, 685–758.
- Hoffmann, J.** and Nebel, B. (2001). The FF planning system: Fast plan generation through heuristic search. *JAIR*, 14, 253–302.
- Hoffmann, J.**, Sabharwal, A., and Domshlak, C. (2006). Friends or foes? An AI planning perspective on abstraction and search. In *ICAPS-06*, pp. 294–303.
- Hogan, N.** (1985). Impedance control: An approach to manipulation. Parts I, II, and III. *J. Dynamic Systems, Measurement, and Control*, 107(3), 1–24.
- Hoem, D.**, Efron, A. A., and Hebert, M. (2008). Putting objects in perspective. *IJCV*, 80(1).
- Holland, J. H.** (1975). *Adaption in Natural and Artificial Systems*. University of Michigan Press.
- Holland, J. H.** (1995). *Hidden Order: How Adaptation Builds Complexity*. Addison-Wesley.
- Holte, R.** and Hernadvolgyi, I. (2001). Steps towards the automatic creation of search heuristics. Tech. rep. TR04-02, CS Dept., Univ. of Alberta.
- Holzmann, G. J.** (1997). The Spin model checker. *IEEE Transactions on Software Engineering*, 23(5), 279–295.
- Hood, A.** (1824). Case 4th—28 July 1824 (Mr. Hood’s cases of injuries of the brain). *Phrenological Journal and Miscellany*, 2, 82–94.
- Hooker, J.** (1995). Testing heuristics: We have it all wrong. *J. Heuristics*, 1, 33–42.
- Hoos, H.** and Tsang, E. (2006). Local search methods. In Rossi, F., van Beek, P., and Walsh, T. (Eds.), *Handbook of Constraint Processing*, pp. 135–168. Elsevier.
- Hope, J.** (1994). *The Authorship of Shakespeare’s Plays*. Cambridge University Press.
- Hopfield, J. J.** (1982). Neurons with graded response have collective computational properties like those of two-state neurons. *PNAS*, 79, 2554–2558.
- Horn, A.** (1951). On sentences which are true of direct unions of algebras. *JSL*, 16, 14–21.
- Horn, B. K. P.** (1970). Shape from shading: A method for obtaining the shape of a smooth opaque object from one view. Technical report 232, MIT Artificial Intelligence Laboratory.
- Horn, B. K. P.** (1986). *Robot Vision*. MIT Press.
- Horn, B. K. P.** and Brooks, M. J. (1989). *Shape from Shading*. MIT Press.
- Horn, K. V.** (2003). Constructing a logic of plausible inference: A guide to cox’s theorem. *IJAR*, 34, 3–24.
- Horning, J. J.** (1969). *A study of grammatical inference*. Ph.D. thesis, Stanford University.
- Horowitz, E.** and Sahni, S. (1978). *Fundamentals of Computer Algorithms*. Computer Science Press.
- Horswill, I.** (2000). Functional programming of behavior-based systems. *Autonomous Robots*, 9, 83–93.
- Horvitz, E. J.** (1987). Problem-solving design: Reasoning about computational value, trade-offs, and resources. In *Proc. Second Annual NASA Research Forum*, pp. 26–43.
- Horvitz, E. J.** (1989). Rational metareasoning and compilation for optimizing decisions under bounded resources. In *Proc. Computational Intelligence 89*. Association for Computing Machinery.
- Horvitz, E. J.** and Barry, M. (1995). Display of information for time-critical decision making. In *UAI-95*, pp. 296–305.
- Horvitz, E. J.**, Breese, J. S., Heckerman, D., and Hovel, D. (1998). The Lumiere project: Bayesian user modeling for inferring the goals and needs of software users. In *UAI-98*, pp. 256–265.
- Horvitz, E. J.**, Breese, J. S., and Henrion, M. (1988). Decision theory in expert systems and artificial intelligence. *IJAR*, 2, 247–302.
- Horvitz, E. J.** and Breese, J. S. (1996). Ideal partition of resources for metareasoning. In *AAAI-96*, pp. 1229–1234.
- Horvitz, E. J.** and Heckerman, D. (1986). The inconsistent use of measures of certainty in artificial intelligence research. In Kanal, L. N. and Lemmer, J. F. (Eds.), *UAI 2*, pp. 137–151. Elsevier/North-Holland.
- Horvitz, E. J.**, Heckerman, D., and Langlotz, C. P. (1986). A framework for comparing alternative formalisms for plausible reasoning. In *AAAI-86*, Vol. 1, pp. 210–214.
- Howard, R. A.** (1960). *Dynamic Programming and Markov Processes*. MIT Press.
- Howard, R. A.** (1966). Information value theory. *IEEE Transactions on Systems Science and Cybernetics*, SSC-2, 22–26.
- Howard, R. A.** (1977). Risk preference. In Howard, R. A. and Matheson, J. E. (Eds.), *Readings in Decision Analysis*, pp. 429–465. Decision Analysis Group, SRI International.
- Howard, R. A.** (1989). Microrisks for medical decision analysis. *Int. J. Technology Assessment in Health Care*, 5, 357–370.
- Howard, R. A.** and Matheson, J. E. (1984). Influence diagrams. In Howard, R. A. and Matheson, J. E. (Eds.), *Readings on the Principles and Applications of Decision Analysis*, pp. 721–762. Strategic Decisions Group.
- Howe, D.** (1987). The computational behaviour of girard’s paradox. In *LICS-87*, pp. 205–214.
- Hsu, F.-H.** (2004). *Behind Deep Blue: Building the Computer that Defeated the World Chess Champion*. Princeton University Press.
- Hsu, F.-H.**, Anantharaman, T. S., Campbell, M. S., and Nowatzyk, A. (1990). A grandmaster chess machine. *Scientific American*, 263(4), 44–50.
- Hu, J.** and Wellman, M. P. (1998). Multiagent reinforcement learning: Theoretical framework and an algorithm. In *ICML-98*, pp. 242–250.
- Hu, J.** and Wellman, M. P. (2003). Nash q-learning for general-sum stochastic games. *JMLR*, 4, 1039–1069.
- Huang, T.**, Koller, D., Malik, J., Ogasawara, G., Rao, B., Russell, S. J., and Weber, J. (1994). Automatic symbolic traffic scene analysis using belief networks. In *AAAI-94*, pp. 966–972.
- Huang, T.** and Russell, S. J. (1998). Object identification: A Bayesian analysis with application to traffic surveillance. *AIJ*, 103, 1–17.
- Huang, X. D.**, Acero, A., and Hon, H. (2001). *Spoken Language Processing*. Prentice Hall.
- Hubel, D. H.** (1988). *Eye, Brain, and Vision*. W. H. Freeman.
- Huddleston, R. D.** and Pullum, G. K. (2002). *The Cambridge Grammar of the English Language*. Cambridge University Press.
- Huffman, D. A.** (1971). Impossible objects as nonsense sentences. In Meltzer, B. and Michie, D. (Eds.), *Machine Intelligence 6*, pp. 295–324. Edinburgh University Press.
- Hughes, B. D.** (1995). *Random Walks and Random Environments, Vol. 1: Random Walks*. Oxford University Press.
- Hughes, G. E.** and Cresswell, M. J. (1968). *A New Introduction to Modal Logic*. Routledge.
- Huhns, M. N.** and Singh, M. P. (Eds.). (1998). *Readings in Agents*. Morgan Kaufmann.
- Hume, D.** (1739). *A Treatise of Human Nature* (2nd edition). Republished by Oxford University Press, 1978, Oxford, UK.
- Humphrys, M.** (2008). How my program passed the turing test. In Epstein, R., Roberts, G., and Beber, G. (Eds.), *Parsing the Turing Test*. Springer.
- Hunsberger, L.** and Grosz, B. J. (2000). A combinatorial auction for collaborative planning. In *Int. Conference on Multi-Agent Systems (ICMAS-2000)*.
- Hunt, W.** and Brock, B. (1992). A formal HDL and its use in the FM9001 verification. *Philosophical Transactions of the Royal Society of London*, 339.
- Hunter, L.** and States, D. J. (1992). Bayesian classification of protein structure. *IEEE Expert*, 7(4), 67–75.
- Hurst, M.** (2000). *The Interpretation of Text in Tables*. Ph.D. thesis, Edinburgh.
- Hurwicz, L.** (1973). The design of mechanisms for resource allocation. *American Economic Review Papers and Proceedings*, 63(1), 1–30.
- Husmeier, D.** (2003). Sensitivity and specificity of inferring genetic regulatory interactions from microarray experiments with dynamic bayesian networks. *Bioinformatics*, 19(17), 2271–2282.
- Huth, M.** and Ryan, M. (2004). *Logic in computer science: modelling and reasoning about systems* (2nd edition). Cambridge University Press.
- Huttenlocher, D.** and Ullman, S. (1990). Recognizing solid objects by alignment with an image. *IJCV*, 5(2), 195–212.
- Huygens, C.** (1657). De ratiociniis in ludo aleae. In van Schooten, F. (Ed.), *Exercitium Mathematicorum*. Elsevier, Amsterdam. Translated into English by John Arbuthnot (1692).
- Huyn, N.**, Dechter, R., and Pearl, J. (1980). Probabilistic analysis of the complexity of A\*. *AIJ*, 15(3), 241–254.
- Hwa, R.** (1998). An empirical evaluation of probabilistic lexicalized tree insertion grammars. In *ACL-98*, pp. 557–563.
- Hwang, C. H.** and Schubert, L. K. (1993). EL: A formal, yet natural, comprehensive knowledge representation. In *AAAI-93*, pp. 676–682.
- Ingerman, P. Z.** (1967). Panini–Backus form suggested. *CACM*, 10(3), 137.
- Inoue, K.** (2001). Inverse entailment for full clausal theories. In *LICS-2001 Workshop on Logic and Learning*.

- Intille, S.** and **Bobick, A.** (1999). A framework for recognizing multi-agent action from visual evidence. In *AAAI-99*, pp. 518–525.
- Isard, M.** and **Blake, A.** (1996). Contour tracking by stochastic propagation of conditional density. In *ECCV*, pp. 343–356.
- Iwama, K.** and **Tamaki, S.** (2004). Improved upper bounds for 3-SAT. In *SODA-04*.
- Jaakkola, T.** and **Jordan, M. I.** (1996). Computing upper and lower bounds on likelihoods in intractable networks. In *UAI-96*, pp. 340–348. Morgan Kaufmann.
- Jaakkola, T., Singh, S. P., and Jordan, M. I.** (1995). Reinforcement learning algorithm for partially observable Markov decision problems. In *NIPS 7*, pp. 345–352.
- Jackson, F.** (1982). Epiphenomenal qualia. *Philosophical Quarterly*, 32, 127–136.
- Jaffar, J.** and **Lassez, J.-L.** (1987). Constraint logic programming. In *Proc. Fourteenth ACM Conference on Principles of Programming Languages*, pp. 111–119. Association for Computing Machinery.
- Jaffar, J., Michaylov, S., Stuckey, P. J., and Yap, R. H. C.** (1992). The CLP(R) language and system. *ACM Transactions on Programming Languages and Systems*, 14(3), 339–395.
- Jaynes, E. T.** (2003). *Probability Theory: The Logic of Science*. Cambridge Univ. Press.
- Jefferson, G.** (1949). The mind of mechanical man: The Lister Oration delivered at the Royal College of Surgeons in England. *British Medical Journal*, 1(25), 1105–1121.
- Jeffrey, R. C.** (1983). *The Logic of Decision* (2nd edition). University of Chicago Press.
- Jeffreys, H.** (1948). *Theory of Probability*. Oxford.
- Jelinek, F.** (1976). Continuous speech recognition by statistical methods. *Proc. IEEE*, 64(4), 532–556.
- Jelinek, F.** (1997). *Statistical Methods for Speech Recognition*. MIT Press.
- Jelinek, F.** and **Mercer, R. L.** (1980). Interpolated estimation of Markov source parameters from sparse data. In *Proc. Workshop on Pattern Recognition in Practice*, pp. 381–397.
- Jennings, H. S.** (1906). *Behavior of the Lower Organisms*. Columbia University Press.
- Jenniskens, P., Betlem, H., Betlem, J., and Barifajjo, E.** (1994). The Mbale meteorite shower. *Meteoritics*, 29(2), 246–254.
- Jensen, F. V.** (2001). *Bayesian Networks and Decision Graphs*. Springer-Verlag.
- Jensen, F. V.** (2007). *Bayesian Networks and Decision Graphs*. Springer-Verlag.
- Jevons, W. S.** (1874). *The Principles of Science*. Routledge/Thoemmes Press, London.
- Ji, S., Parr, R., Li, H., Liao, X., and Carin, L.** (2007). Point-based policy iteration. In *AAAI-07*.
- Jimenez, P.** and **Torras, C.** (2000). An efficient algorithm for searching implicit AND/OR graphs with cycles. *AIJ*, 124(1), 1–30.
- Joachims, T.** (2001). A statistical learning model of text classification with support vector machines. In *SIGIR-01*, pp. 128–136.
- Johnson, W. W.** and **Story, W. E.** (1879). Notes on the “15” puzzle. *American Journal of Mathematics*, 2, 397–404.
- Johnston, M. D.** and **Adorf, H.-M.** (1992). Scheduling with neural networks: The case of the Hubble space telescope. *Computers and Operations Research*, 19(3–4), 209–240.
- Jones, N. D., Gomard, C. K., and Sestoft, P.** (1993). *Partial Evaluation and Automatic Program Generation*. Prentice-Hall.
- Jones, R., Laird, J., and Nielsen, P. E.** (1998). Automated intelligent pilots for combat flight simulation. In *AAAI-98*, pp. 1047–54.
- Jones, R., McCallum, A., Nigam, K., and Riloff, E.** (1999). Bootstrapping for text learning tasks. In *Proc. IJCAI-99 Workshop on Text Mining: Foundations, Techniques, and Applications*, pp. 52–63.
- Jones, T.** (2007). *Artificial Intelligence: A Systems Approach*. Infinity Science Press.
- Jonsson, A., Morris, P., Muscettola, N., Rajan, K., and Smith, B.** (2000). Planning in interplanetary space: Theory and practice. In *AIPS-00*, pp. 177–186.
- Jordan, M. I.** (1995). Why the logistic function? a tutorial discussion on probabilities and neural networks. Computational cognitive science technical report 9503, Massachusetts Institute of Technology.
- Jordan, M. I.** (2005). Dirichlet processes, Chinese restaurant processes and all that. Tutorial presentation at the NIPS Conference.
- Jordan, M. I., Ghahramani, Z., Jaakkola, T., and Saul, L. K.** (1998). An introduction to variational methods for graphical models. In **Jordan, M. I.** (Ed.), *Learning in Graphical Models*. Kluwer.
- Jouannaud, J.-P.** and **Kirchner, C.** (1991). Solving equations in abstract algebras: A rule-based survey of unification. In **Lassez, J.-L.** and **Plotkin, G.** (Eds.), *Computational Logic*, pp. 257–321. MIT Press.
- Judd, J. S.** (1990). *Neural Network Design and the Complexity of Learning*. MIT Press.
- Juels, A.** and **Wattenberg, M.** (1996). Stochastic hillclimbing as a baseline method for evaluating genetic algorithms. In **Touretzky, D. S., Mozer, M. C., and Hasselmo, M. E.** (Eds.), *NIPS 8*, pp. 430–6. MIT Press.
- Junker, U.** (2003). The logic of ilog (j)configurator: Combining constraint programming with a description logic. In *Proc. IJCAI-03 Configuration Workshop*, pp. 13–20.
- Jurafsky, D.** and **Martin, J. H.** (2000). *Speech and Language Processing: An Introduction to Natural Language Processing, Computational Linguistics, and Speech Recognition*. Prentice-Hall.
- Jurafsky, D.** and **Martin, J. H.** (2008). *Speech and Language Processing: An Introduction to Natural Language Processing, Computational Linguistics, and Speech Recognition* (2nd edition). Prentice-Hall.
- Kadane, J. B.** and **Simon, H. A.** (1977). Optimal strategies for a class of constrained sequential problems. *Annals of Statistics*, 5, 237–255.
- Kadane, J. B.** and **Larkey, P. D.** (1982). Subjective probability and the theory of games. *Management Science*, 28(2), 113–120.
- Kaelbling, L. P., Littman, M. L., and Cassandra, A. R.** (1998). Planning and acting in partially observable stochastic domains. *AIJ*, 101, 99–134.
- Kaelbling, L. P., Littman, M. L., and Moore, A. W.** (1996). Reinforcement learning: A survey. *JAIR*, 4, 237–285.
- Kaelbling, L. P.** and **Rosenschein, S. J.** (1990). Action and planning in embedded agents. *Robotics and Autonomous Systems*, 6(1–2), 35–48.
- Kager, R.** (1999). *Optimality Theory*. Cambridge University Press.
- Kahn, H.** and **Marshall, A. W.** (1953). Methods of reducing sample size in Monte Carlo computations. *Operations Research*, 1(5), 263–278.
- Kahneman, D., Slovic, P., and Tversky, A.** (Eds.). (1982). *Judgment under Uncertainty: Heuristics and Biases*. Cambridge University Press.
- Kahneman, D.** and **Tversky, A.** (1979). Prospect theory: An analysis of decision under risk. *Econometrica*, pp. 263–291.
- Kaindl, H.** and **Khorsand, A.** (1994). Memory-bounded bidirectional search. In *AAAI-94*, pp. 1359–1364.
- Kalman, R.** (1960). A new approach to linear filtering and prediction problems. *J. Basic Engineering*, 82, 35–46.
- Kambhampati, S.** (1994). Exploiting causal structure to control retrieval and refitting during plan reuse. *Computational Intelligence*, 10, 213–244.
- Kambhampati, S., Mali, A. D., and Srivastava, B.** (1998). Hybrid planning for partially hierarchical domains. In *AAAI-98*, pp. 882–888.
- Kanal, L. N.** and **Kumar, V.** (1988). *Search in Artificial Intelligence*. Springer-Verlag.
- Kanazawa, K., Koller, D., and Russell, S. J.** (1995). Stochastic simulation algorithms for dynamic probabilistic networks. In *UAI-95*, pp. 346–351.
- Kantorovich, L. V.** (1939). Mathematical methods of organizing and planning production. Published in translation in *Management Science*, 6(4), 366–422, July 1960.
- Kaplan, D.** and **Montague, R.** (1960). A paradox regained. *Notre Dame Journal of Formal Logic*, 1(3), 79–90.
- Karmarkar, N.** (1984). A new polynomial-time algorithm for linear programming. *Combinatorica*, 4, 373–395.
- Karp, R. M.** (1972). Reducibility among combinatorial problems. In **Miller, R. E.** and **Thatcher, J. W.** (Eds.), *Complexity of Computer Computations*, pp. 85–103. Plenum.
- Kartam, N. A.** and **Levitt, R. E.** (1990). A constraint-based approach to construction planning of multi-story buildings. In *Expert Planning Systems*, pp. 245–250. Institute of Electrical Engineers.
- Kasami, T.** (1965). An efficient recognition and syntax analysis algorithm for context-free languages. Tech. rep. AFCRL-65-758, Air Force Cambridge Research Laboratory.
- Kasparov, G.** (1997). IBM owes me a rematch. *Time*, 149(21), 66–67.
- Kaufmann, M., Manolios, P., and Moore, J. S.** (2000). *Computer-Aided Reasoning: An Approach*. Kluwer.
- Kautz, H.** (2006). Deconstructing planning as satisfiability. In *AAAI-06*.
- Kautz, H., McAllester, D. A., and Selman, B.** (1996). Encoding plans in propositional logic. In *KR-96*, pp. 374–384.
- Kautz, H.** and **Selman, B.** (1992). Planning as satisfiability. In *ECAI-92*, pp. 359–363.

- Kautz**, H. and Selman, B. (1998). BLACKBOX: A new approach to the application of theorem proving to problem solving. Working Notes of the AIPS-98 Workshop on Planning as Combinatorial Search.
- Kavraki**, L., Svetska, P., Latombe, J.-C., and Overmars, M. (1996). Probabilistic roadmaps for path planning in high-dimensional configuration spaces. *IEEE Transactions on Robotics and Automation*, 12(4), 566–580.
- Kay**, M., Gawron, J. M., and Norvig, P. (1994). *Verbmobil: A Translation System for Face-To-Face Dialog*. CSLI Press.
- Kearns**, M. (1990). *The Computational Complexity of Machine Learning*. MIT Press.
- Kearns**, M., Mansour, Y., and Ng, A. Y. (2000). Approximate planning in large POMDPs via reusable trajectories. In Solla, S. A., Leen, T. K., and Müller, K.-R. (Eds.), *NIPS 12*. MIT Press.
- Kearns**, M. and Singh, S. P. (1998). Near-optimal reinforcement learning in polynomial time. In *ICML-98*, pp. 260–268.
- Kearns**, M. and Vazirani, U. (1994). *An Introduction to Computational Learning Theory*. MIT Press.
- Kearns**, M. and Mansour, Y. (1998). A fast, bottom-up decision tree pruning algorithm with near-optimal generalization. In *ICML-98*, pp. 269–277.
- Kebeasy**, R. M., Hussein, A. I., and Dahy, S. A. (1998). Discrimination between natural earthquakes and nuclear explosions using the Aswan Seismic Network. *Annali di Geofisica*, 41(2), 127–140.
- Keeney**, R. L. (1974). Multiplicative utility functions. *Operations Research*, 22, 22–34.
- Keeney**, R. L. and Raiffa, H. (1976). *Decisions with Multiple Objectives: Preferences and Value Trade-offs*. Wiley.
- Kemp**, M. (Ed.). (1989). *Leonardo on Painting: An Anthology of Writings*. Yale University Press.
- Kephart**, J. O. and Chess, D. M. (2003). The vision of autonomic computing. *IEEE Computer*, 36(1), 41–50.
- Kersting**, K., Raedt, L. D., and Kramer, S. (2000). Interpreting bayesian logic programs. In *Proc. AAAI-2000 Workshop on Learning Statistical Models from Relational Data*.
- Kessler**, B., Nunberg, G., and Schütze, H. (1997). Automatic detection of text genre. *CoRR*, *cmp/9707002*.
- Keynes**, J. M. (1921). *A Treatise on Probability*. Macmillan.
- Khare**, R. (2006). Microformats: The next (small) thing on the semantic web. *IEEE Internet Computing*, 10(1), 68–75.
- Khatib**, O. (1986). Real-time obstacle avoidance for robot manipulator and mobile robots. *Int. J. Robotics Research*, 5(1), 90–98.
- Khmelev**, D. V. and Tweedie, F. J. (2001). Using Markov chains for identification of writer. *Literary and Linguistic Computing*, 16(3), 299–307.
- Kietz**, J.-U. and Duzeroski, S. (1994). Inductive logic programming and learnability. *SIGART Bulletin*, 5(1), 22–32.
- Kilgarriff**, A. and Grefenstette, G. (2006). Introduction to the special issue on the web as corpus. *Computational Linguistics*, 29(3), 333–347.
- Kim**, J. H. (1983). *CONVINCE: A Conversational Inference Consolidation Engine*. Ph.D. thesis, Department of Computer Science, University of California at Los Angeles.
- Kim**, J. H. and Pearl, J. (1983). A computational model for combined causal and diagnostic reasoning in inference systems. In *IJCAI-83*, pp. 190–193.
- Kim**, J.-H., Lee, C.-H., Lee, K.-H., and Kupsuwamy, N. (2007). Evolving personality of a genetic robot in ubiquitous environment. In *The 16th IEEE International Symposium on Robot and Human Interactive Communication*, pp. 848–853.
- King**, R. D., Rowland, J., Oliver, S. G., and Young, M. (2009). The automation of science. *Science*, 324(5923), 85–89.
- Kirk**, D. E. (2004). *Optimal Control Theory: An Introduction*. Dover.
- Kirkpatrick**, S., Gelatt, C. D., and Vecchi, M. P. (1983). Optimization by simulated annealing. *Science*, 220, 671–680.
- Kister**, J., Stein, P., Ulam, S., Walden, W., and Wells, M. (1957). Experiments in chess. *JACM*, 4, 174–177.
- Kisynski**, J. and Poole, D. (2009). Lifted aggregation in directed first-order probabilistic models. In *IJCAI-09*.
- Kitano**, H., Asada, M., Kuniyoshi, Y., Noda, I., and Osawa, E. (1997a). RoboCup: The robot world cup initiative. In *Proc. First International Conference on Autonomous Agents*, pp. 340–347.
- Kitano**, H., Asada, M., Kuniyoshi, Y., Noda, I., Osawa, E., and Matsuura, H. (1997b). RoboCup: A challenge problem for AI. *AIMag*, 18(1), 73–85.
- Kjaerulff**, U. (1992). A computational scheme for reasoning in dynamic probabilistic networks. In *UAI-92*, pp. 121–129.
- Klein**, D. and Manning, C. (2001). Parsing with tree-bank grammars: Empirical bounds, theoretical models, and the structure of the Penn treebank. In *ACL-01*.
- Klein**, D. and Manning, C. (2003). A\* parsing: Fast exact Viterbi parse selection. In *HLT-NAACL-03*, pp. 119–126.
- Klein**, D., Smarr, J., Nguyen, H., and Manning, C. (2003). Named entity recognition with character-level models. In *Conference on Natural Language Learning (CoNLL)*.
- Kleinberg**, J. M. (1999). Authoritative sources in a hyperlinked environment. *JACM*, 46(5), 604–632.
- Klemperer**, P. (2002). What really matters in auction design. *J. Economic Perspectives*, 16(1).
- Kneser**, R. and Ney, H. (1995). Improved backing-off for M-gram language modeling. In *ICASSP-95*, pp. 181–184.
- Knight**, K. (1999). A statistical MT tutorial workbook. Prepared in connection with the Johns Hopkins University summer workshop.
- Knuth**, D. E. (1964). Representing numbers using only one 4. *Mathematics Magazine*, 37(Nov/Dec), 308–310.
- Knuth**, D. E. (1968). Semantics for context-free languages. *Mathematical Systems Theory*, 2(2), 127–145.
- Knuth**, D. E. (1973). *The Art of Computer Programming* (second edition), Vol. 2: Fundamental Algorithms. Addison-Wesley.
- Knuth**, D. E. (1975). An analysis of alpha-beta pruning. *AIJ*, 6(4), 293–326.
- Knuth**, D. E. and Bendix, P. B. (1970). Simple word problems in universal algebras. In Leech, J. (Ed.), *Computational Problems in Abstract Algebra*, pp. 263–267. Pergamon.
- Kocsis**, L. and Szepesvari, C. (2006). Bandit-based Monte-Carlo planning. In *ECML-06*.
- Koditschek**, D. (1987). Exact robot navigation by means of potential functions: some topological considerations. In *ICRA-87*, Vol. 1, pp. 1–6.
- Koehler**, J., Nebel, B., Hoffmann, J., and Dimopoulos, Y. (1997). Extending planning graphs to an ADL subset. In *ECP-97*, pp. 273–285.
- Koehn**, P. (2009). *Statistical Machine Translation*. Cambridge University Press.
- Koenderink**, J. J. (1990). *Solid Shape*. MIT Press.
- Koenig**, S. (1991). Optimal probabilistic and decision-theoretic planning using Markovian decision theory. Master's report, Computer Science Division, University of California.
- Koenig**, S. (2000). Exploring unknown environments with real-time search or reinforcement learning. In Solla, S. A., Leen, T. K., and Müller, K.-R. (Eds.), *NIPS 12*. MIT Press.
- Koenig**, S. (2001). Agent-centered search. *AIMag*, 22(4), 109–131.
- Koller**, D., Meggido, N., and von Stengel, B. (1996). Efficient computation of equilibria for extensive two-person games. *Games and Economic Behaviour*, 14(2), 247–259.
- Koller**, D. and Pfeffer, A. (1997). Representations and solutions for game-theoretic problems. *AIJ*, 94(1–2), 167–215.
- Koller**, D. and Pfeffer, A. (1998). Probabilistic frame-based systems. In *AAAI-98*, pp. 580–587.
- Koller**, D. and Friedman, N. (2009). *Probabilistic Graphical Models: Principles and Techniques*. MIT Press.
- Koller**, D. and Milch, B. (2003). Multi-agent influence diagrams for representing and solving games. *Games and Economic Behavior*, 45, 181–221.
- Koller**, D. and Parr, R. (2000). Policy iteration for factored MDPs. In *UAI-00*, pp. 326–334.
- Koller**, D. and Sahami, M. (1997). Hierarchically classifying documents using very few words. In *ICML-97*, pp. 170–178.
- Kolmogorov**, A. N. (1941). Interpolation und extrapolation von stationären zufälligen folgen. *Bulletin of the Academy of Sciences of the USSR, Ser. Math.* 5, 3–14.
- Kolmogorov**, A. N. (1950). *Foundations of the Theory of Probability*. Chelsea.
- Kolmogorov**, A. N. (1963). On tables of random numbers. *Sankhya, the Indian Journal of Statistics, Series A* 25.
- Kolmogorov**, A. N. (1965). Three approaches to the quantitative definition of information. *Problems in Information Transmission*, 1(1), 1–7.
- Kolodner**, J. (1983). Reconstructive memory: A computer model. *Cognitive Science*, 7, 281–328.
- Kolodner**, J. (1993). *Case-Based Reasoning*. Morgan Kaufmann.
- Kondrak**, G. and van Beek, P. (1997). A theoretical evaluation of selected backtracking algorithms. *AIJ*, 89, 365–387.
- Konolige**, K. (1997). COLBERT: A language for reactive control in Saphira. In *Künstliche Intelligenz: Advances in Artificial Intelligence*, LNAI, pp. 31–52.
- Konolige**, K. (2004). Large-scale map-making. In *AAAI-04*, pp. 457–463.



- Konolige, K.** (1982). A first order formalization of knowledge and action for a multi-agent planning system. In Hayes, J. E., Michie, D., and Pao, Y.-H. (Eds.), *Machine Intelligence 10*. Ellis Horwood.
- Konolige, K.** (1994). Easy to be hard: Difficult problems for greedy algorithms. In *KR-94*, pp. 374–378.
- Koo, T., Carreras, X., and Collins, M.** (2008). Simple semi-supervised dependency parsing. In *ACL-08*.
- Koopmans, T. C.** (1972). Representation of preference orderings over time. In McGuire, C. B. and Radner, R. (Eds.), *Decision and Organization*. Elsevier/North-Holland.
- Korb, K. B. and Nicholson, A.** (2003). *Bayesian Artificial Intelligence*. Chapman and Hall.
- Korb, K. B., Nicholson, A., and Jitnah, N.** (1999). Bayesian poker. In *UAI-99*.
- Korf, R. E.** (1985a). Depth-first iterative-deepening: an optimal admissible tree search. *AIJ*, 27(1), 97–109.
- Korf, R. E.** (1985b). Iterative-deepening A\*: An optimal admissible tree search. In *IJCAI-85*, pp. 1034–1036.
- Korf, R. E.** (1987). Planning as search: A quantitative approach. *AIJ*, 33(1), 65–88.
- Korf, R. E.** (1990). Real-time heuristic search. *AIJ*, 42(3), 189–212.
- Korf, R. E.** (1993). Linear-space best-first search. *AIJ*, 62(1), 41–78.
- Korf, R. E.** (1995). Space-efficient search algorithms. *ACM Computing Surveys*, 27(3), 337–339.
- Korf, R. E. and Chickering, D. M.** (1996). Best-first minimax search. *AIJ*, 84(1–2), 299–337.
- Korf, R. E. and Felner, A.** (2002). Disjoint pattern database heuristics. *AIJ*, 134(1–2), 9–22.
- Korf, R. E., Reid, M., and Edelkamp, S.** (2001). Time complexity of iterative-deepening-A\*. *AIJ*, 129, 199–218.
- Korf, R. E. and Zhang, W.** (2000). Divide-and-conquer frontier search applied to optimal sequence alignment. In *American Association for Artificial Intelligence*, pp. 910–916.
- Korf, R. E.** (2008). Linear-time disk-based implicit graph search. *JACM*, 55(6).
- Korf, R. E. and Schultze, P.** (2005). Large-scale parallel breadth-first search. In *AAAI-05*, pp. 1380–1385.
- Kotok, A.** (1962). A chess playing program for the IBM 7090. AI project memo 41, MIT Computation Center.
- Koutsoupias, E. and Papadimitriou, C. H.** (1992). On the greedy algorithm for satisfiability. *Information Processing Letters*, 43(1), 53–55.
- Kowalski, R.** (1974). Predicate logic as a programming language. In *Proc. IFIP Congress*, pp. 569–574.
- Kowalski, R.** (1979). *Logic for Problem Solving*. Elsevier/North-Holland.
- Kowalski, R.** (1988). The early years of logic programming. *CACM*, 31, 38–43.
- Kowalski, R. and Sergot, M.** (1986). A logic-based calculus of events. *New Generation Computing*, 4(1), 67–95.
- Koza, J. R.** (1992). *Genetic Programming: On the Programming of Computers by Means of Natural Selection*. MIT Press.
- Koza, J. R.** (1994). *Genetic Programming II: Automatic discovery of reusable programs*. MIT Press.
- Koza, J. R., Bennett, F. H., Andre, D., and Keane, M. A.** (1999). *Genetic Programming III: Darwinian invention and problem solving*. Morgan Kaufmann.
- Kraus, S., Ephrati, E., and Lehmann, D.** (1991). Negotiation in a non-cooperative environment. *AIJ*, 3(4), 255–281.
- Krause, A. and Guestrin, C.** (2009). Optimal value of information in graphical models. *JAIR*, 35, 557–591.
- Krause, A., McMahan, B., Guestrin, C., and Gupta, A.** (2008). Robust submodular observation selection. *JMLR*, 9, 2761–2801.
- Kripke, S. A.** (1963). Semantical considerations on modal logic. *Acta Philosophica Fennica*, 16, 83–94.
- Krogh, A., Brown, M., Mian, I. S., Sjolander, K., and Haussler, D.** (1994). Hidden Markov models in computational biology: Applications to protein modeling. *J. Molecular Biology*, 235, 1501–1531.
- Kübler, S., McDonald, R., and Nivre, J.** (2009). *Dependency Parsing*. Morgan Claypool.
- Kuhn, H. W.** (1953). Extensive games and the problem of information. In Kuhn, H. W. and Tucker, A. W. (Eds.), *Contributions to the Theory of Games II*. Princeton University Press.
- Kuhn, H. W.** (1955). The Hungarian method for the assignment problem. *Naval Research Logistics Quarterly*, 2, 83–97.
- Kuipers, B. J.** (1985). Qualitative simulation. In Brown, D. (Ed.), *Qualitative Reasoning About Physical Systems*, pp. 169–203. MIT Press.
- Kuipers, B. J. and Levitt, T. S.** (1988). Navigation and mapping in large-scale space. *AIMag*, 9(2), 25–43.
- Kuipers, B. J.** (2001). Qualitative simulation. In Meyers, R. A. (Ed.), *Encyclopaedia of Physical Science and Technology*. Academic Press.
- Kumar, P. R. and Varaiya, P.** (1986). *Stochastic Systems: Estimation, Identification, and Adaptive Control*. Prentice-Hall.
- Kumar, V.** (1992). Algorithms for constraint satisfaction problems: A survey. *AIMag*, 13(1), 32–44.
- Kumar, V. and Kanal, L. N.** (1983). A general branch and bound formulation for understanding and synthesizing and/or tree search procedures. *AIJ*, 21, 179–198.
- Kumar, V. and Kanal, L. N.** (1988). The CDP: A unifying formulation for heuristic search, dynamic programming, and branch-and-bound. In Kanal, L. N. and Kumar, V. (Eds.), *Search in Artificial Intelligence*, chap. 1, pp. 1–27. Springer-Verlag.
- Kumar, V., Nau, D. S., and Kanal, L. N.** (1988). A general branch-and-bound formulation for AND/OR graph and game tree search. In Kanal, L. N. and Kumar, V. (Eds.), *Search in Artificial Intelligence*, chap. 3, pp. 91–130. Springer-Verlag.
- Kurien, J., Nayak, P., and Smith, D. E.** (2002). Fragment-based conformant planning. In *AIPS-02*.
- Kurzweil, R.** (1990). *The Age of Intelligent Machines*. MIT Press.
- Kurzweil, R.** (2005). *The Singularity is Near*. Viking.
- Kwok, C., Etzioni, O., and Weld, D. S.** (2001). Scaling question answering to the web. In *Proc. 10th International Conference on the World Wide Web*.
- Kyburg, H. E. and Teng, C.-M.** (2006). Nonmonotonic logic and statistical inference. *Computational Intelligence*, 22(1), 26–51.
- Kyburg, H. E.** (1977). Randomness and the right reference class. *J. Philosophy*, 74(9), 501–521.
- Kyburg, H. E.** (1983). The reference class. *Philosophy of Science*, 50, 374–397.
- La Mettrie, J. O.** (1748). *L’homme machine*. E. Luzac, Leyde, France.
- La Mura, P. and Shoham, Y.** (1999). Expected utility networks. In *UAI-99*, pp. 366–373.
- Laborie, P.** (2003). Algorithms for propagating resource constraints in AI planning and scheduling. *AIJ*, 143(2), 151–188.
- Ladkin, P.** (1986a). Primitives and units for time specification. In *AAAI-86*, Vol. 1, pp. 354–359.
- Ladkin, P.** (1986b). Time representation: a taxonomy of interval relations. In *AAAI-86*, Vol. 1, pp. 360–366.
- Lafferty, J., McCallum, A., and Pereira, F.** (2001). Conditional random fields: Probabilistic models for segmenting and labeling sequence data. In *ICML-01*.
- Lafferty, J. and Zhai, C.** (2001). Probabilistic relevance models based on document and query generation. In *Proc. Workshop on Language Modeling and Information Retrieval*.
- Lagoudakis, M. G. and Parr, R.** (2003). Least-squares policy iteration. *JMLR*, 4, 1107–1149.
- Laird, J., Newell, A., and Rosenbloom, P. S.** (1987). SOAR: An architecture for general intelligence. *AIJ*, 33(1), 1–64.
- Laird, J., Rosenbloom, P. S., and Newell, A.** (1986). Chunking in Soar: The anatomy of a general learning mechanism. *Machine Learning*, 1, 11–46.
- Laird, J.** (2008). Extending the Soar cognitive architecture. In *Artificial General Intelligence Conference*.
- Lakoff, G.** (1987). *Women, Fire, and Dangerous Things: What Categories Reveal About the Mind*. University of Chicago Press.
- Lakoff, G. and Johnson, M.** (1980). *Metaphors We Live By*. University of Chicago Press.
- Lakoff, G. and Johnson, M.** (1999). *Philosophy in the Flesh: The Embodied Mind and Its Challenge to Western Thought*. Basic Books.
- Lam, J. and Greenspan, M.** (2008). Eye-in-hand visual servoing for accurate shooting in pool robotics. In *5th Canadian Conference on Computer and Robot Vision*.
- Lamarck, J. B.** (1809). *Philosophie zoologique*. Chez Dentu et L’Auteur, Paris.
- Landhuis, E.** (2004). Lifelong debunker takes on arbiter of neutral choices: Magician-turned-mathematician uncovers bias in a flip of a coin. *Stanford Report*.
- Langdon, W. and Poli, R.** (2002). *Foundations of Genetic Programming*. Springer.
- Langley, P., Simon, H. A., Bradshaw, G. L., and Zytkow, J. M.** (1987). *Scientific Discovery: Computational Explorations of the Creative Processes*. MIT Press.
- Langton, C.** (Ed.). (1995). *Artificial Life*. MIT Press.
- Laplace, P.** (1816). *Essai philosophique sur les probabilités* (3rd edition). Courcier Imprimeur, Paris.

- Laptev, I.** and Perez, P. (2007). Retrieving actions in movies. In *ICCV*, pp. 1–8.
- Lari, K.** and Young, S. J. (1990). The estimation of stochastic context-free grammars using the inside-outside algorithm. *Computer Speech and Language*, 4, 35–56.
- Larrañaga, P.**, Kuijpers, C., Murga, R., Inza, I., and Dizdarevic, S. (1999). Genetic algorithms for the travelling salesman problem: A review of representations and operators. *Artificial Intelligence Review*, 13, 129–170.
- Larson, S. C.** (1931). The shrinkage of the coefficient of multiple correlation. *J. Educational Psychology*, 22, 45–55.
- Laskey, K. B.** (2008). MEBN: A language for first-order bayesian knowledge bases. *AIJ*, 172, 140–178.
- Latombe, J.-C.** (1991). *Robot Motion Planning*. Kluwer.
- Lauritzen, S.** (1995). The EM algorithm for graphical association models with missing data. *Computational Statistics and Data Analysis*, 19, 191–201.
- Lauritzen, S.** (1996). *Graphical models*. Oxford University Press.
- Lauritzen, S.**, Dawid, A. P., Larsen, B., and Leimer, H. (1990). Independence properties of directed Markov fields. *Networks*, 20(5), 491–505.
- Lauritzen, S.** and Spiegelhalter, D. J. (1988). Local computations with probabilities on graphical structures and their application to expert systems. *J. Royal Statistical Society, B* 50(2), 157–224.
- Lauritzen, S.** and Wermuth, N. (1989). Graphical models for associations between variables, some of which are qualitative and some quantitative. *Annals of Statistics*, 17, 31–57.
- LaValle, S.** (2006). *Planning Algorithms*. Cambridge University Press.
- Lavrauc, N.** and Duzeroski, S. (1994). *Inductive Logic Programming: Techniques and Applications*. Ellis Horwood.
- Lawler, E. L.**, Lenstra, J. K., Kan, A., and Shmoys, D. B. (1992). *The Travelling Salesman Problem*. Wiley Interscience.
- Lawler, E. L.**, Lenstra, J. K., Kan, A., and Shmoys, D. B. (1993). Sequencing and scheduling: Algorithms and complexity. In Graves, S. C., Zipkin, P. H., and Kan, A. H. G. R. (Eds.), *Logistics of Production and Inventory: Handbooks in Operations Research and Management Science, Volume 4*, pp. 445–522. North-Holland.
- Lawler, E. L.** and Wood, D. E. (1966). Branch-and-bound methods: A survey. *Operations Research*, 14(4), 699–719.
- Lazanas, A.** and Latombe, J.-C. (1992). Landmark-based robot navigation. In *AAAI-92*, pp. 816–822.
- LeCun, Y.**, Jackel, L., Boser, B., and Denker, J. (1989). Handwritten digit recognition: Applications of neural network chips and automatic learning. *IEEE Communications Magazine*, 27(11), 41–46.
- LeCun, Y.**, Jackel, L., Bottou, L., Brunot, A., Cortes, C., Denker, J., Drucker, H., Guyon, I., Muller, U., Sackinger, E., Simard, P., and Vapnik, V. N. (1995). Comparison of learning algorithms for handwritten digit recognition. In *Int. Conference on Artificial Neural Networks*, pp. 53–60.
- Leech, G.**, Rayson, P., and Wilson, A. (2001). *Word Frequencies in Written and Spoken English: Based on the British National Corpus*. Longman.
- Legendre, A. M.** (1805). *Nouvelles méthodes pour la détermination des orbites des comètes*. .
- Lehrer, J.** (2009). *How We Decide*. Houghton Mifflin.
- Lenat, D. B.** (1983). EURISKO: A program that learns new heuristics and domain concepts: The nature of heuristics, III: Program design and results. *AIJ*, 21(1–2), 61–98.
- Lenat, D. B.** and Brown, J. S. (1984). Why AM and EURISKO appear to work. *AIJ*, 23(3), 269–294.
- Lenat, D. B.** and Guha, R. V. (1990). *Building Large Knowledge-Based Systems: Representation and Inference in the CYC Project*. Addison-Wesley.
- Leonard, H. S.** and Goodman, N. (1940). The calculus of individuals and its uses. *JSL*, 5(2), 45–55.
- Leonard, J.** and Durrant-Whyte, H. (1992). *Directed sonar sensing for mobile robot navigation*. Kluwer.
- Leśniewski, S.** (1916). *Podstawy ogólnej teorii mnogości*. Moscow.
- Lettvin, J. Y.**, Maturana, H. R., McCulloch, W. S., and Pitts, W. (1959). What the frog's eye tells the frog's brain. *Proc. IRE*, 47(11), 1940–1951.
- Letz, R.**, Schumann, J., Bayerl, S., and Bibel, W. (1992). SETHEO: A high-performance theorem prover. *JAR*, 8(2), 183–212.
- Levesque, H. J.** and Brachman, R. J. (1987). Expressiveness and tractability in knowledge representation and reasoning. *Computational Intelligence*, 3(2), 78–93.
- Levin, D. A.**, Peres, Y., and Wilmer, E. L. (2008). *Markov Chains and Mixing Times*. American Mathematical Society.
- Levitt, G. M.** (2000). *The Turk, Chess Automaton*. McFarland and Company.
- Levy, D.** (Ed.). (1988a). *Computer Chess Compendium*. Springer-Verlag.
- Levy, D.** (Ed.). (1988b). *Computer Games*. Springer-Verlag.
- Levy, D.** (1989). The million pound bridge program. In Levy, D. and Beal, D. (Eds.), *Heuristic Programming in Artificial Intelligence*. Ellis Horwood.
- Levy, D.** (2007). *Love and Sex with Robots*. Harper.
- Lewis, D. D.** (1998). Naive Bayes at forty: The independence assumption in information retrieval. In *ECML-98*, pp. 4–15.
- Lewis, D. K.** (1966). An argument for the identity theory. *J. Philosophy*, 63(1), 17–25.
- Lewis, D. K.** (1980). Mad pain and Martian pain. In Block, N. (Ed.), *Readings in Philosophy of Psychology*, Vol. 1, pp. 216–222. Harvard University Press.
- Leyton-Brown, K.** and Shoham, Y. (2008). *Essentials of Game Theory: A Concise, Multidisciplinary Introduction*. Morgan Claypool.
- Li, C. M.** and Anbulagan (1997). Heuristics based on unit propagation for satisfiability problems. In *IJCAI-97*, pp. 366–371.
- Li, M.** and Vitanyi, P. M. B. (1993). *An Introduction to Kolmogorov Complexity and Its Applications*. Springer-Verlag.
- Liberatore, P.** (1997). The complexity of the language A. *Electronic Transactions on Artificial Intelligence*, 1, 13–38.
- Lifschitz, V.** (2001). Answer set programming and plan generation. *AIJ*, 138(1–2), 39–54.
- Lighthill, J.** (1973). Artificial intelligence: A general survey. In Lighthill, J., Sutherland, N. S., Needham, R. M., Longuet-Higgins, H. C., and Michie, D. (Eds.), *Artificial Intelligence: A Paper Symposium*. Science Research Council of Great Britain.
- Lin, S.** (1965). Computer solutions of the travelling salesman problem. *Bell Systems Technical Journal*, 44(10), 2245–2269.
- Lin, S.** and Kernighan, B. W. (1973). An effective heuristic algorithm for the travelling-salesman problem. *Operations Research*, 21(2), 498–516.
- Lindley, D. V.** (1956). On a measure of the information provided by an experiment. *Annals of Mathematical Statistics*, 27(4), 986–1005.
- Lindsay, R. K.**, Buchanan, B. G., Feigenbaum, E. A., and Lederberg, J. (1980). *Applications of Artificial Intelligence for Organic Chemistry: The DEN-DRAL Project*. McGraw-Hill.
- Littman, M. L.** (1994). Markov games as a framework for multi-agent reinforcement learning. In *ICML-94*, pp. 157–163.
- Littman, M. L.**, Keim, G. A., and Shazeer, N. M. (1999). Solving crosswords with PROVERB. In *AAAI-99*, pp. 914–915.
- Liu, J. S.** and Chen, R. (1998). Sequential Monte Carlo methods for dynamic systems. *JASA*, 93, 1022–1031.
- Livescu, K.**, Glass, J., and Bilmes, J. (2003). Hidden feature modeling for speech recognition using dynamic Bayesian networks. In *EUROSPEECH-2003*, pp. 2529–2532.
- Livnat, A.** and Pippenger, N. (2006). An optimal brain can be composed of conflicting agents. *PNAS*, 103(9), 3198–3202.
- Locke, J.** (1690). *An Essay Concerning Human Understanding*. William Tegg.
- Lodge, D.** (1984). *Small World*. Penguin Books.
- Loftus, E.** and Palmer, J. (1974). Reconstruction of automobile destruction: An example of the interaction between language and memory. *J. Verbal Learning and Verbal Behavior*, 13, 585–589.
- Lohn, J. D.**, Kraus, W. F., and Colombano, S. P. (2001). Evolutionary optimization of yagi-uda antennas. In *Proc. Fourth International Conference on Evolvable Systems*, pp. 236–243.
- Longley, N.** and Sankaran, S. (2005). The NHL's overtime-loss rule: Empirically analyzing the unintended effects. *Atlantic Economic Journal*.
- Longuet-Higgins, H. C.** (1981). A computer algorithm for reconstructing a scene from two projections. *Nature*, 293, 133–135.
- Loo, B. T.**, Condie, T., Garofalakis, M., Gay, D. E., Hellerstein, J. M., Maniatis, P., Ramakrishnan, R., Roscoe, T., and Stoica, I. (2006). Declarative networking: Language, execution and optimization. In *SIGMOD-06*.
- Love, N.**, Hinrichs, T., and Genesereth, M. R. (2006). General game playing: Game description language specification. Tech. rep. LG-2006-01, Stanford University Computer Science Dept.
- Lovejoy, W. S.** (1991). A survey of algorithmic methods for partially observed Markov decision processes. *Annals of Operations Research*, 28(1–4), 47–66.
- Loveland, D.** (1970). A linear format for resolution. In *Proc. IRIA Symposium on Automatic Demonstration*, pp. 147–162.

- Lowe, D.** (1987). Three-dimensional object recognition from single two-dimensional images. *AIJ*, 3(1), 355–395.
- Lowe, D.** (1999). Object recognition using local scale invariant feature. In *ICCV*.
- Lowe, D.** (2004). Distinctive image features from scale-invariant keypoints. *IJCV*, 60(2), 91–110.
- Löwenheim, L.** (1915). Über möglichkeiten im Relativkalkül. *Mathematische Annalen*, 76, 447–470.
- Lowerre, B. T.** (1976). *The HARP Speech Recognition System*. Ph.D. thesis, Computer Science Department, Carnegie-Mellon University.
- Lowerre, B. T.** and Reddy, R. (1980). The HARP speech recognition system. In Lea, W. A. (Ed.), *Trends in Speech Recognition*, chap. 15. Prentice-Hall.
- Lowry, M.** (2008). Intelligent software engineering tools for NASA’s crew exploration vehicle. In *Proc. ISMIS*.
- Loyd, S.** (1959). *Mathematical Puzzles of Sam Loyd: Selected and Edited by Martin Gardner*. Dover.
- Lozano-Perez, T.** (1983). Spatial planning: A configuration space approach. *IEEE Transactions on Computers*, C-32(2), 108–120.
- Lozano-Perez, T.**, Mason, M., and Taylor, R. (1984). Automatic synthesis of fine-motion strategies for robots. *Int. J. Robotics Research*, 3(1), 3–24.
- Lu, F.** and Miliot, E. (1997). Globally consistent range scan alignment for environment mapping. *Autonomous Robots*, 4, 333–349.
- Luby, M.**, Sinclair, A., and Zuckerman, D. (1993). Optimal speedup of Las Vegas algorithms. *Information Processing Letters*, 47, 173–180.
- Lucas, J. R.** (1961). Minds, machines, and Gödel. *Philosophy*, 36.
- Lucas, J. R.** (1976). This Gödel is killing me: A rejoinder. *Philosophia*, 6(1), 145–148.
- Lucas, P.** (1996). Knowledge acquisition for decision-theoretic expert systems. *AISB Quarterly*, 94, 23–33.
- Lucas, P.**, van der Gaag, L., and Abu-Hanna, A. (2004). Bayesian networks in biomedicine and health-care. *Artificial Intelligence in Medicine*.
- Luce, D. R.** and Raiffa, H. (1957). *Games and Decisions*. Wiley.
- Ludlow, P.**, Nagasawa, Y., and Stoljar, D. (2004). *There’s Something About Mary*. MIT Press.
- Luger, G. F.** (Ed.). (1995). *Computation and intelligence: Collected readings*. AAAI Press.
- Lyman, P.** and Varian, H. R. (2003). How much information? [www.sims.berkeley.edu/how-much-info-2003](http://www.sims.berkeley.edu/how-much-info-2003).
- Machina, M.** (2005). Choice under uncertainty. In *Encyclopedia of Cognitive Science*, pp. 505–514. Wiley.
- MacKay, D. J. C.** (1992). A practical Bayesian framework for back-propagation networks. *Neural Computation*, 4(3), 448–472.
- MacKay, D. J. C.** (2002). *Information Theory, Inference and Learning Algorithms*. Cambridge University Press.
- MacKenzie, D.** (2004). *Mechanizing Proof*. MIT Press.
- Mackworth, A. K.** (1977). Consistency in networks of relations. *AIJ*, 8(1), 99–118.
- Mackworth, A. K.** (1992). Constraint satisfaction. In Shapiro, S. (Ed.), *Encyclopedia of Artificial Intelligence* (second edition), Vol. 1, pp. 285–293. Wiley.
- Mahanti, A.** and Daniels, C. J. (1993). A SIMD approach to parallel heuristic search. *AIJ*, 60(2), 243–282.
- Mailath, G.** and Samuelson, L. (2006). *Repeated Games and Reputations: Long-Run Relationships*. Oxford University Press.
- Majercik, S. M.** and Littman, M. L. (2003). Contingent planning under uncertainty via stochastic satisfiability. *AIJ*, pp. 119–162.
- Malik, J.** and Perona, P. (1990). Preattentive texture discrimination with early vision mechanisms. *J. Opt. Soc. Am. A*, 7(5), 923–932.
- Malik, J.** and Rosenholtz, R. (1994). Recovering surface curvature and orientation from texture distortion: A least squares algorithm and sensitivity analysis. In *ECCV*, pp. 353–364.
- Malik, J.** and Rosenholtz, R. (1997). Computing local surface orientation and shape from texture for curved surfaces. *IJCV*, 23(2), 149–168.
- Maneva, E.**, Mossel, E., and Wainwright, M. J. (2007). A new look at survey propagation and its generalizations. *JACM*, 54(4).
- Manna, Z.** and Waldinger, R. (1971). Toward automatic program synthesis. *CACM*, 14(3), 151–165.
- Manna, Z.** and Waldinger, R. (1985). *The Logical Basis for Computer Programming: Volume 1: Deductive Reasoning*. Addison-Wesley.
- Manning, C.** and Schütze, H. (1999). *Foundations of Statistical Natural Language Processing*. MIT Press.
- Manning, C.**, Raghavan, P., and Schütze, H. (2008). *Introduction to Information Retrieval*. Cambridge University Press.
- Mannion, M.** (2002). Using first-order logic for product line model validation. In *Software Product Lines: Second International Conference*. Springer.
- Manzini, G.** (1995). BIDA\*: An improved perimeter search algorithm. *AIJ*, 72(2), 347–360.
- Marbach, P.** and Tsitsiklis, J. N. (1998). Simulation-based optimization of Markov reward processes. Technical report LIDS-P-2411, Laboratory for Information and Decision Systems, Massachusetts Institute of Technology.
- Marcus, G.** (2009). *Kluge: The Haphazard Evolution of the Human Mind*. Mariner Books.
- Marcus, M. P.**, Santorini, B., and Marcinkiewicz, M. A. (1993). Building a large annotated corpus of english: The penn treebank. *Computational Linguistics*, 19(2), 313–330.
- Markov, A. A.** (1913). An example of statistical investigation in the text of “Eugene Onegin” illustrating coupling of “tests” in chains. *Proc. Academy of Sciences of St. Petersburg*, 7.
- Maron, M. E.** (1961). Automatic indexing: An experimental inquiry. *JACM*, 8(3), 404–417.
- Maron, M. E.** and Kuhns, J.-L. (1960). On relevance, probabilistic indexing and information retrieval. *CACM*, 7, 219–244.
- Marr, D.** (1982). *Vision: A Computational Investigation into the Human Representation and Processing of Visual Information*. W. H. Freeman.
- Marriott, K.** and Stuckey, P. J. (1998). *Programming with Constraints: An Introduction*. MIT Press.
- Marsland, A. T.** and Schaeffer, J. (Eds.). (1990). *Computers, Chess, and Cognition*. Springer-Verlag.
- Marsland, S.** (2009). *Machine Learning: An Algorithmic Perspective*. CRC Press.
- Martelli, A.** and Montanari, U. (1973). Additive AND/OR graphs. In *IJCAI-73*, pp. 1–11.
- Martelli, A.** and Montanari, U. (1978). Optimizing decision trees through heuristically guided search. *CACM*, 21, 1025–1039.
- Martelli, A.** (1977). On the complexity of admissible search algorithms. *AIJ*, 8(1), 1–13.
- Marthi, B.**, Pasula, H., Russell, S. J., and Peres, Y. (2002). Decayed MCMC filtering. In *UAI-02*, pp. 319–326.
- Marthi, B.**, Russell, S. J., Latham, D., and Guestrin, C. (2005). Concurrent hierarchical reinforcement learning. In *IJCAI-05*.
- Marthi, B.**, Russell, S. J., and Wolfe, J. (2007). Angelic semantics for high-level actions. In *ICAPS-07*.
- Marthi, B.**, Russell, S. J., and Wolfe, J. (2008). Angelic hierarchical planning: Optimal and online algorithms. In *ICAPS-08*.
- Martin, D.**, Fowlkes, C., and Malik, J. (2004). Learning to detect natural image boundaries using local brightness, color, and texture cues. *PAMI*, 26(5), 530–549.
- Martin, J. H.** (1990). *A Computational Model of Metaphor Interpretation*. Academic Press.
- Mason, M.** (1993). Kicking the sensing habit. *AIMag*, 14(1), 58–59.
- Mason, M.** (2001). *Mechanics of Robotic Manipulation*. MIT Press.
- Mason, M.** and Salisbury, J. (1985). *Robot hands and the mechanics of manipulation*. MIT Press.
- Mataric, M. J.** (1997). Reinforcement learning in the multi-robot domain. *Autonomous Robots*, 4(1), 73–83.
- Mates, B.** (1953). *Stoic Logic*. University of California Press.
- Matuszek, C.**, Cabral, J., Witbrock, M., and DeOliveira, J. (2006). An introduction to the syntax and semantics of cyc. In *Proc. AAAI Spring Symposium on Formalizing and Compiling Background Knowledge and Its Applications to Knowledge Representation and Question Answering*.
- Maxwell, J.** and Kaplan, R. (1993). The interface between phrasal and functional constraints. *Computational Linguistics*, 19(4), 571–590.
- McAllester, D. A.** (1980). An outlook on truth maintenance. Ai memo 551, MIT AI Laboratory.
- McAllester, D. A.** (1988). Conspiracy numbers for min-max search. *AIJ*, 35(3), 287–310.
- McAllester, D. A.** (1998). What is the most pressing issue facing AI and the AAAI today? Candidate statement, election for Councilor of the American Association for Artificial Intelligence.
- McAllester, D. A.** and Rosenblitt, D. (1991). Systematic nonlinear planning. In *AAAI-91*, Vol. 2, pp. 634–639.
- McCallum, A.** (2003). Efficiently inducing features of conditional random fields. In *UAI-03*.
- McCarthy, J.** (1958). Programs with common sense. In *Proc. Symposium on Mechanisation of Thought Processes*, Vol. 1, pp. 77–84.
- McCarthy, J.** (1963). Situations, actions, and causal laws. Memo 2, Stanford University Artificial Intelligence Project.

- McCarthy, J.** (1968). Programs with common sense. In Minsky, M. L. (Ed.), *Semantic Information Processing*, pp. 403–418. MIT Press.
- McCarthy, J.** (1980). Circumscription: A form of non-monotonic reasoning. *AIJ*, 13(1–2), 27–39.
- McCarthy, J.** (2007). From here to human-level AI. *AIJ*, 17(18), 1174–1182.
- McCarthy, J.** and Hayes, P. J. (1969). Some philosophical problems from the standpoint of artificial intelligence. In Meltzer, B., Michie, D., and Swann, M. (Eds.), *Machine Intelligence 4*, pp. 463–502. Edinburgh University Press.
- McCarthy, J., Minsky, M. L., Rochester, N., and Shannon, C. E.** (1955). Proposal for the Dartmouth summer research project on artificial intelligence. Tech. rep., Dartmouth College.
- McCawley, J. D.** (1988). *The Syntactic Phenomena of English*, Vol. 2 volumes. University of Chicago Press.
- McCorduck, P.** (2004). *Machines who think: a personal inquiry into the history and prospects of artificial intelligence* (Revised edition). A K Peters.
- McCulloch, W. S.** and Pitts, W. (1943). A logical calculus of the ideas immanent in nervous activity. *Bulletin of Mathematical Biophysics*, 5, 115–137.
- McCune, W.** (1992). Automated discovery of new axiomatizations of the left group and right group calculi. *JAR*, 9(1), 1–24.
- McCune, W.** (1997). Solution of the Robbins problem. *JAR*, 19(3), 263–276.
- McDermott, D.** (1976). Artificial intelligence meets natural stupidity. *SIGART Newsletter*, 57, 4–9.
- McDermott, D.** (1978a). Planning and acting. *Cognitive Science*, 2(2), 71–109.
- McDermott, D.** (1978b). Tarskian semantics, or, no notation without denotation! *Cognitive Science*, 2(3).
- McDermott, D.** (1985). Reasoning about plans. In Hobbs, J. and Moore, R. (Eds.), *Formal theories of the commonsense world*. Intellect Books.
- McDermott, D.** (1987). A critique of pure reason. *Computational Intelligence*, 3(3), 151–237.
- McDermott, D.** (1996). A heuristic estimator for means-ends analysis in planning. In *ICAPS-96*, pp. 142–149.
- McDermott, D.** and Doyle, J. (1980). Non-monotonic logic: i. *AIJ*, 13(1–2), 41–72.
- McDermott, J.** (1982). R1: A rule-based configurator of computer systems. *AIJ*, 19(1), 39–88.
- McEliece, R. J., MacKay, D. J. C., and Cheng, J.-F.** (1998). Turbo decoding as an instance of Pearl's "belief propagation" algorithm. *IEEE Journal on Selected Areas in Communications*, 16(2), 140–152.
- McGregor, J. J.** (1979). Relational consistency algorithms and their application in finding subgraph and graph isomorphisms. *Information Sciences*, 19(3), 229–250.
- McIlraith, S.** and Zeng, H. (2001). Semantic web services. *IEEE Intelligent Systems*, 16(2), 46–53.
- McLachlan, G. J.** and Krishnan, T. (1997). *The EM Algorithm and Extensions*. Wiley.
- McMillan, K. L.** (1993). *Symbolic Model Checking*. Kluwer.
- Meehl, P.** (1955). *Clinical vs. Statistical Prediction*. University of Minnesota Press.
- Mendel, G.** (1866). Versuche über pflanzenhybriden. *Verhandlungen des Naturforschenden Vereins, Abhandlungen, Brünn*, 4, 3–47. Translated into English by C. T. Druery, published by Bateson (1902).
- Mercer, J.** (1909). Functions of positive and negative type and their connection with the theory of integral equations. *Philos. Trans. Roy. Soc. London, A*, 209, 415–446.
- Merleau-Ponty, M.** (1945). *Phenomenology of Perception*. Routledge.
- Metropolis, N., Rosenbluth, A., Rosenbluth, M., Teller, A., and Teller, E.** (1953). Equations of state calculations by fast computing machines. *J. Chemical Physics*, 21, 1087–1091.
- Metzinger, T.** (2009). *The Ego Tunnel: The Science of the Mind and the Myth of the Self*. Basic Books.
- Mézard, M.** and Nadal, J.-P. (1989). Learning in feedforward layered networks: The tiling algorithm. *J. Physics*, 22, 2191–2204.
- Michalski, R. S.** (1969). On the quasi-minimal solution of the general covering problem. In *Proc. First International Symposium on Information Processing*, pp. 125–128.
- Michalski, R. S., Moztic, I., Hong, J., and Lavrauc, N.** (1986). The multi-purpose incremental learning system AQ15 and its testing application to three medical domains. In *AAAI-86*, pp. 1041–1045.
- Michie, D.** (1966). Game-playing and game-learning automata. In Fox, L. (Ed.), *Advances in Programming and Non-Numerical Computation*, pp. 183–200. Pergamon.
- Michie, D.** (1972). Machine intelligence at Edinburgh. *Management Informatics*, 2(1), 7–12.
- Michie, D.** (1974). Machine intelligence at Edinburgh. In *On Intelligence*, pp. 143–155. Edinburgh University Press.
- Michie, D.** and Chambers, R. A. (1968). BOXES: An experiment in adaptive control. In Dale, E. and Michie, D. (Eds.), *Machine Intelligence 2*, pp. 125–133. Elsevier/North-Holland.
- Michie, D., Spiegelhalter, D. J., and Taylor, C.** (Eds.). (1994). *Machine Learning, Neural and Statistical Classification*. Ellis Horwood.
- Milch, B., Marthi, B., Sontag, D., Russell, S. J., Ong, D., and Kolobov, A.** (2005). BLOG: Probabilistic models with unknown objects. In *IJCAI-05*.
- Milch, B., Zettlemoyer, L. S., Kersting, K., Haimes, M., and Kaelbling, L. P.** (2008). Lifted probabilistic inference with counting formulas. In *AAAI-08*, pp. 1062–1068.
- Milgrom, P.** (1997). Putting auction theory to work: The simultaneous ascending auction. Tech. rep. Technical Report 98-0002, Stanford University Department of Economics.
- Mill, J. S.** (1843). *A System of Logic, Ratiocinative and Inductive: Being a Connected View of the Principles of Evidence, and Methods of Scientific Investigation*. J. W. Parker, London.
- Mill, J. S.** (1863). *Utilitarianism*. Parker, Son and Bourn, London.
- Miller, A. C., Merkhofer, M. M., Howard, R. A., Matheson, J. E., and Rice, T. R.** (1976). Development of automated aids for decision analysis. Technical report, SRI International.
- Minker, J.** (2001). *Logic-Based Artificial Intelligence*. Kluwer.
- Minsky, M. L.** (1975). A framework for representing knowledge. In Winston, P. H. (Ed.), *The Psychology of Computer Vision*, pp. 211–277. McGraw-Hill. Originally an MIT AI Laboratory memo; the 1975 version is abridged, but is the most widely cited.
- Minsky, M. L.** (1986). *The society of mind*. Simon and Schuster.
- Minsky, M. L.** (2007). *The Emotion Machine: Commonsense Thinking, Artificial Intelligence, and the Future of the Human Mind*. Simon and Schuster.
- Minsky, M. L.** and Papert, S. (1969). *Perceptrons: An Introduction to Computational Geometry* (first edition). MIT Press.
- Minsky, M. L.** and Papert, S. (1988). *Perceptrons: An Introduction to Computational Geometry* (Expanded edition). MIT Press.
- Minsky, M. L., Singh, P., and Sloman, A.** (2004). The st. thomas common sense symposium: Designing architectures for human-level intelligence. *AIMag*, 25(2), 113–124.
- Minton, S.** (1984). Constraint-based generalization: Learning game-playing plans from single examples. In *AAAI-84*, pp. 251–254.
- Minton, S.** (1988). Quantitative results concerning the utility of explanation-based learning. In *AAAI-88*, pp. 564–569.
- Minton, S., Johnston, M. D., Philips, A. B., and Laird, P.** (1992). Minimizing conflicts: A heuristic repair method for constraint satisfaction and scheduling problems. *AIJ*, 58(1–3), 161–205.
- Misak, C.** (2004). *The Cambridge Companion to Peirce*. Cambridge University Press.
- Mitchell, M.** (1996). *An Introduction to Genetic Algorithms*. MIT Press.
- Mitchell, M., Holland, J. H., and Forrest, S.** (1996). When will a genetic algorithm outperform hill climbing? In Cowan, J., Tesauro, G., and Alspector, J. (Eds.), *NIPS 6*. MIT Press.
- Mitchell, T. M.** (1977). Version spaces: A candidate elimination approach to rule learning. In *IJCAI-77*, pp. 305–310.
- Mitchell, T. M.** (1982). Generalization as search. *AIJ*, 18(2), 203–226.
- Mitchell, T. M.** (1990). Becoming increasingly reactive (mobile robots). In *AAAI-90*, Vol. 2, pp. 1051–1058.
- Mitchell, T. M.** (1997). *Machine Learning*. McGraw-Hill.
- Mitchell, T. M., Keller, R., and Kedar-Cabelli, S.** (1986). Explanation-based generalization: A unifying view. *Machine Learning*, 1, 47–80.
- Mitchell, T. M., Utgoff, P. E., and Banerji, R.** (1983). Learning by experimentation: Acquiring and refining problem-solving heuristics. In Michalski, R. S., Carbonell, J. G., and Mitchell, T. M. (Eds.), *Machine Learning: An Artificial Intelligence Approach*, pp. 163–190. Morgan Kaufmann.
- Mitchell, T. M.** (2005). Reading the web: A breakthrough goal for AI. *AIMag*, 26(3), 12–16.
- Mitchell, T. M.** (2007). Learning, information extraction and the web. In *ECML/PKDD*, p. 1.
- Mitchell, T. M., Shinkareva, S. V., Carlson, A., Chang, K.-M., Malave, V. L., Mason, R. A., and Just, M. A.** (2008). Predicting human brain activity associated with the meanings of nouns. *Science*, 320, 1191–1195.
- Mohr, R.** and Henderson, T. C. (1986). Arc and path consistency revisited. *AIJ*, 28(2), 225–233.

- Mohri, M., Pereira, F., and Riley, M.** (2002). Weighted finite-state transducers in speech recognition. *Computer Speech and Language*, 16(1), 69–88.
- Montague, P. R., Dayan, P., Person, C., and Sejnowski, T.** (1995). Bee foraging in uncertain environments using predictive Hebbian learning. *Nature*, 377, 725–728.
- Montague, R.** (1970). English as a formal language. In *Linguaggi nella Società e nella Tecnica*, pp. 189–224. Edizioni di Comunità.
- Montague, R.** (1973). The proper treatment of quantification in ordinary English. In Hintikka, K. J. J., Moravcsik, J. M. E., and Suppes, P. (Eds.), *Approaches to Natural Language*. D. Reidel.
- Montanari, U.** (1974). Networks of constraints: Fundamental properties and applications to picture processing. *Information Sciences*, 7(2), 95–132.
- Montemerlo, M. and Thrun, S.** (2004). Large-scale robotic 3-D mapping of urban structures. In *Proc. International Symposium on Experimental Robotics*. Springer Tracts in Advanced Robotics (STAR).
- Montemerlo, M., Thrun, S., Koller, D., and Wegbreit, B.** (2002). FastSLAM: A factored solution to the simultaneous localization and mapping problem. In *AAAI-02*.
- Mooney, R.** (1999). Learning for semantic interpretation: Scaling up without dumbing down. In *Proc. 1st Workshop on Learning Language in Logic*, pp. 7–15.
- Moore, A. and Wong, W.-K.** (2003). Optimal reinsertion: A new search operator for accelerated and more accurate Bayesian network structure learning. In *ICML-03*.
- Moore, A. W. and Atkeson, C. G.** (1993). Prioritized sweeping—Reinforcement learning with less data and less time. *Machine Learning*, 13, 103–130.
- Moore, A. W. and Lee, M. S.** (1997). Cached sufficient statistics for efficient machine learning with large datasets. *JAIR*, 8, 67–91.
- Moore, E. F.** (1959). The shortest path through a maze. In *Proc. an International Symposium on the Theory of Switching, Part II*, pp. 285–292. Harvard University Press.
- Moore, R. C.** (1980). Reasoning about knowledge and action. Artificial intelligence center technical note 191, SRI International.
- Moore, R. C.** (1985). A formal theory of knowledge and action. In Hobbs, J. R. and Moore, R. C. (Eds.), *Formal Theories of the Commonsense World*, pp. 319–358. Ablex.
- Moore, R. C.** (2005). Association-based bilingual word alignment. In *Proc. ACL-05 Workshop on Building and Using Parallel Texts*, pp. 1–8.
- Moravec, H. P.** (1983). The stanford cart and the cmu rover. *Proc. IEEE*, 71(7), 872–884.
- Moravec, H. P. and Elfes, A.** (1985). High resolution maps from wide angle sonar. In *ICRA-85*, pp. 116–121.
- Moravec, H. P.** (1988). *Mind Children: The Future of Robot and Human Intelligence*. Harvard University Press.
- Moravec, H. P.** (2000). *Robot: Mere Machine to Transcendent Mind*. Oxford University Press.
- Morgenstern, L.** (1998). Inheritance comes of age: Applying nonmonotonic techniques to problems in industry. *AIJ*, 103, 237–271.
- Morjaria, M. A., Rink, F. J., Smith, W. D., Klempner, G., Burns, C., and Stein, J.** (1995). Elicitation of probabilities for belief networks: Combining qualitative and quantitative information. In *UAI-95*, pp. 141–148.
- Morrison, P. and Morrison, E.** (Eds.). (1961). *Charles Babbage and His Calculating Engines: Selected Writings by Charles Babbage and Others*. Dover.
- Moskewicz, M. W., Madigan, C. F., Zhao, Y., Zhang, L., and Malik, S.** (2001). Chaff: Engineering an efficient SAT solver. In *Proc. 38th Design Automation Conference (DAC 2001)*, pp. 530–535.
- Mosteller, F. and Wallace, D. L.** (1964). *Inference and Disputed Authorship: The Federalist*. Addison-Wesley.
- Mostow, J. and Prieditis, A. E.** (1989). Discovering admissible heuristics by abstracting and optimizing: A transformational approach. In *IJCAI-89, Vol. 1*, pp. 701–707.
- Motzkin, T. S. and Schoenberg, I. J.** (1954). The relaxation method for linear inequalities. *Canadian Journal of Mathematics*, 6(3), 393–404.
- Moutarlier, P. and Chatila, R.** (1989). Stochastic multisensory data fusion for mobile robot location and environment modeling. In *ISRR-89*.
- Mueller, E. T.** (2006). *Commonsense Reasoning*. Morgan Kaufmann.
- Muggleton, S. H.** (1991). Inductive logic programming. *New Generation Computing*, 8, 295–318.
- Muggleton, S. H.** (1992). *Inductive Logic Programming*. Academic Press.
- Muggleton, S. H.** (1995). Inverse entailment and Progol. *New Generation Computing*, 13(3–4), 245–286.
- Muggleton, S. H.** (2000). Learning stochastic logic programs. *Proc. AAAI 2000 Workshop on Learning Statistical Models from Relational Data*.
- Muggleton, S. H. and Buntine, W.** (1988). Machine invention of first-order predicates by inverting resolution. In *ICML-88*, pp. 339–352.
- Muggleton, S. H. and De Raedt, L.** (1994). Inductive logic programming: Theory and methods. *J. Logic Programming*, 19/20, 629–679.
- Muggleton, S. H. and Feng, C.** (1990). Efficient induction of logic programs. In *Proc. Workshop on Algorithmic Learning Theory*, pp. 368–381.
- Müller, M.** (2002). Computer Go. *AIJ*, 134(1–2), 145–179.
- Müller, M.** (2003). Conditional combinatorial games, and their application to analyzing capturing races in go. *Information Sciences*, 154(3–4), 189–202.
- Mumford, D. and Shah, J.** (1989). Optimal approximations by piece-wise smooth functions and associated variational problems. *Commun. Pure Appl. Math.*, 42, 577–685.
- Murphy, K., Weiss, Y., and Jordan, M. I.** (1999). Loopy belief propagation for approximate inference: An empirical study. In *UAI-99*, pp. 467–475.
- Murphy, K.** (2001). The Bayes net toolbox for MATLAB. *Computing Science and Statistics*, 33.
- Murphy, K.** (2002). *Dynamic Bayesian Networks: Representation, Inference and Learning*. Ph.D. thesis, UC Berkeley.
- Murphy, K. and Mian, I. S.** (1999). Modelling gene expression data using Bayesian networks. [people.cs.ubc.ca/~murphyk/Papers/ismb99.pdf](http://people.cs.ubc.ca/~murphyk/Papers/ismb99.pdf).
- Murphy, K. and Russell, S. J.** (2001). Rao-blackwellised particle filtering for dynamic Bayesian networks. In Doucet, A., de Freitas, N., and Gordon, N. J. (Eds.), *Sequential Monte Carlo Methods in Practice*. Springer-Verlag.
- Murphy, K. and Weiss, Y.** (2001). The factored frontier algorithm for approximate inference in DBNs. In *UAI-01*, pp. 378–385.
- Murphy, R.** (2000). *Introduction to AI Robotics*. MIT Press.
- Murray-Rust, P., Rzepa, H. S., Williamson, J., and Willighagen, E. L.** (2003). Chemical markup, XML and the world-wide web. 4. CML schema. *J. Chem. Inf. Comput. Sci.*, 43, 752–772.
- Murthy, C. and Russell, J. R.** (1990). A constructive proof of Higman’s lemma. In *LICS-90*, pp. 257–269.
- Muscettola, N.** (2002). Computing the envelope for stepwise-constant resource allocations. In *CP-02*, pp. 139–154.
- Muscettola, N., Nayak, P., Pell, B., and Williams, B.** (1998). Remote agent: To boldly go where no AI system has gone before. *AIJ*, 103, 5–48.
- Muslea, I.** (1999). Extraction patterns for information extraction tasks: A survey. In *Proc. AAAI-99 Workshop on Machine Learning for Information Extraction*.
- Myerson, R.** (1981). Optimal auction design. *Mathematics of Operations Research*, 6, 58–73.
- Myerson, R.** (1986). Multistage games with communication. *Econometrica*, 54, 323–358.
- Myerson, R.** (1991). *Game Theory: Analysis of Conflict*. Harvard University Press.
- Nagel, T.** (1974). What is it like to be a bat? *Philosophical Review*, 83, 435–450.
- Nalwa, V. S.** (1993). *A Guided Tour of Computer Vision*. Addison-Wesley.
- Nash, J.** (1950). Equilibrium points in N-person games. *PNAS*, 36, 48–49.
- Nau, D. S.** (1980). Pathology on game trees: A summary of results. In *AAAI-80*, pp. 102–104.
- Nau, D. S.** (1983). Pathology on game trees revisited, and an alternative to minimaxing. *AIJ*, 21(1–2), 221–244.
- Nau, D. S., Kumar, V., and Kanal, L. N.** (1984). General branch and bound, and its relation to A\* and AO\*. *AIJ*, 23, 29–58.
- Nayak, P. and Williams, B.** (1997). Fast context switching in real-time propositional reasoning. In *AAAI-97*, pp. 50–56.
- Neal, R.** (1996). *Bayesian Learning for Neural Networks*. Springer-Verlag.
- Nebel, B.** (2000). On the compilability and expressive power of propositional planning formalisms. *JAIR*, 12, 271–315.
- Nefian, A., Liang, L., Pi, X., Liu, X., and Murphy, K.** (2002). Dynamic bayesian networks for audiovisual speech recognition. *EURASIP, Journal of Applied Signal Processing*, 11, 1–15.
- Nesterov, Y. and Nemirovski, A.** (1994). *Interior-Point Polynomial Methods in Convex Programming*. SIAM (Society for Industrial and Applied Mathematics).
- Netto, E.** (1901). *Lehrbuch der Combinatorik*. B. G. Teubner.
- Nevill-Manning, C. G. and Witten, I. H.** (1997). Identifying hierarchical structures in sequences: A linear-time algorithm. *JAIR*, 7, 67–82.

- Newell, A. (1982). The knowledge level. *AIJ*, 18(1), 82–127.
- Newell, A. (1990). *Unified Theories of Cognition*. Harvard University Press.
- Newell, A. and Ernst, G. (1965). The search for generality. In *Proc. IFIP Congress*, Vol. 1, pp. 17–24.
- Newell, A., Shaw, J. C., and Simon, H. A. (1957). Empirical explorations with the logic theory machine. *Proc. Western Joint Computer Conference*, 15, 218–239. Reprinted in Feigenbaum and Feldman (1963).
- Newell, A., Shaw, J. C., and Simon, H. A. (1958). Chess playing programs and the problem of complexity. *IBM Journal of Research and Development*, 4(2), 320–335.
- Newell, A. and Simon, H. A. (1961). GPS, a program that simulates human thought. In Billing, H. (Ed.), *Lernende Automaten*, pp. 109–124. R. Oldenbourg.
- Newell, A. and Simon, H. A. (1972). *Human Problem Solving*. Prentice-Hall.
- Newell, A. and Simon, H. A. (1976). Computer science as empirical inquiry: Symbols and search. *CACM*, 19, 113–126.
- Newton, I. (1664–1671). *Methodus fluxionum et serierum infinitarum*. Unpublished notes.
- Ng, A. Y. (2004). Feature selection,  $l_1$  vs.  $l_2$  regularization, and rotational invariance. In *ICML-04*.
- Ng, A. Y., Harada, D., and Russell, S. J. (1999). Policy invariance under reward transformations: Theory and application to reward shaping. In *ICML-99*.
- Ng, A. Y. and Jordan, M. I. (2000). PEGASUS: A policy search method for large MDPs and POMDPs. In *UAI-00*, pp. 406–415.
- Ng, A. Y., Kim, H. J., Jordan, M. I., and Sastry, S. (2004). Autonomous helicopter flight via reinforcement learning. In *NIPS 16*.
- Nguyen, X. and Kambhampati, S. (2001). Reviving partial order planning. In *IJCAI-01*, pp. 459–466.
- Nguyen, X., Kambhampati, S., and Nigenda, R. S. (2001). Planning graph as the basis for deriving heuristics for plan synthesis by state space and CSP search. Tech. rep., Computer Science and Engineering Department, Arizona State University.
- Nicholson, A. and Brady, J. M. (1992). The data association problem when monitoring robot vehicles using dynamic belief networks. In *ECAI-92*, pp. 689–693.
- Niemelä, I., Simons, P., and Syrjänen, T. (2000). Smodels: A system for answer set programming. In *Proc. 8th International Workshop on Non-Monotonic Reasoning*.
- Nigam, K., McCallum, A., Thrun, S., and Mitchell, T. M. (2000). Text classification from labeled and unlabeled documents using EM. *Machine Learning*, 39(2–3), 103–134.
- Niles, I. and Pease, A. (2001). Towards a standard upper ontology. In *FOIS '01: Proc. international conference on Formal Ontology in Information Systems*, pp. 2–9.
- Nilsson, D. and Lauritzen, S. (2000). Evaluating influence diagrams using LIMIDs. In *UAI-00*, pp. 436–445.
- Nilsson, N. J. (1965). *Learning Machines: Foundations of Trainable Pattern-Classifying Systems*. McGraw-Hill. Republished in 1990.
- Nilsson, N. J. (1971). *Problem-Solving Methods in Artificial Intelligence*. McGraw-Hill.
- Nilsson, N. J. (1984). Shakey the robot. Technical note 323, SRI International.
- Nilsson, N. J. (1986). Probabilistic logic. *AIJ*, 28(1), 71–87.
- Nilsson, N. J. (1991). Logic and artificial intelligence. *AIJ*, 47(1–3), 31–56.
- Nilsson, N. J. (1995). Eye on the prize. *AIMag*, 16(2), 9–17.
- Nilsson, N. J. (1998). *Artificial Intelligence: A New Synthesis*. Morgan Kaufmann.
- Nilsson, N. J. (2005). Human-level artificial intelligence? be serious! *AIMag*, 26(4), 68–75.
- Nilsson, N. J. (2009). *The Quest for Artificial Intelligence: A History of Ideas and Achievements*. Cambridge University Press.
- Nisan, N., Roughgarden, T., Tardos, E., and Vazirani, V. (Eds.). (2007). *Algorithmic Game Theory*. Cambridge University Press.
- Noe, A. (2009). *Out of Our Heads: Why You Are Not Your Brain, and Other Lessons from the Biology of Consciousness*. Hill and Wang.
- Norvig, P. (1988). Multiple simultaneous interpretations of ambiguous sentences. In *COGSCI-88*.
- Norvig, P. (1992). *Paradigms of Artificial Intelligence Programming: Case Studies in Common Lisp*. Morgan Kaufmann.
- Norvig, P. (2009). Natural language corpus data. In Segaran, T. and Hammerbacher, J. (Eds.), *Beautiful Data*. O'Reilly.
- Nowick, S. M., Dean, M. E., Dill, D. L., and Horowitz, M. (1993). The design of a high-performance cache controller: A case study in asynchronous synthesis. *Integration: The VLSI Journal*, 15(3), 241–262.
- Nunberg, G. (1979). The non-uniqueness of semantic solutions: Polysemy. *Language and Philosophy*, 3(2), 143–184.
- Nussbaum, M. C. (1978). *Aristotle's De Motu Animalium*. Princeton University Press.
- Oaksford, M. and Chater, N. (Eds.). (1998). *Rational models of cognition*. Oxford University Press.
- Och, F. J. and Ney, H. (2003). A systematic comparison of various statistical alignment models. *Computational Linguistics*, 29(1), 19–51.
- Och, F. J. and Ney, H. (2004). The alignment template approach to statistical machine translation. *Computational Linguistics*, 30, 417–449.
- Ogawa, S., Lee, T.-M., Kay, A. R., and Tank, D. W. (1990). Brain magnetic resonance imaging with contrast dependent on blood oxygenation. *PNAS*, 87, 9868–9872.
- Oh, S., Russell, S. J., and Sastry, S. (2009). Markov chain Monte Carlo data association for multi-target tracking. *IEEE Transactions on Automatic Control*, 54(3), 481–497.
- Olesen, K. G. (1993). Causal probabilistic networks with both discrete and continuous variables. *PAMI*, 15(3), 275–279.
- Oliver, N., Garg, A., and Horvitz, E. J. (2004). Layered representations for learning and inferring office activity from multiple sensory channels. *Computer Vision and Image Understanding*, 96, 163–180.
- Oliver, R. M. and Smith, J. Q. (Eds.). (1990). *Influence Diagrams, Belief Nets and Decision Analysis*. Wiley.
- Omohundro, S. (2008). The basic AI drives. In *AGI-08 Workshop on the Sociocultural, Ethical and Futurological Implications of Artificial Intelligence*.
- O'Reilly, U.-M. and Oppacher, F. (1994). Program search with a hierarchical variable length representation: Genetic programming, simulated annealing and hill climbing. In *Proc. Third Conference on Parallel Problem Solving from Nature*, pp. 397–406.
- Ormoneit, D. and Sen, S. (2002). Kernel-based reinforcement learning. *Machine Learning*, 49(2–3), 161–178.
- Osborne, M. J. (2004). *An Introduction to Game Theory*. Oxford University Press.
- Osborne, M. J. and Rubinstein, A. (1994). *A Course in Game Theory*. MIT Press.
- Osherson, D. N., Stob, M., and Weinstein, S. (1986). *Systems That Learn: An Introduction to Learning Theory for Cognitive and Computer Scientists*. MIT Press.
- Padgham, L. and Winikoff, M. (2004). *Developing Intelligent Agent Systems: A Practical Guide*. Wiley.
- Page, C. D. and Srinivasan, A. (2002). ILP: A short look back and a longer look forward. Submitted to *Journal of Machine Learning Research*.
- Palacios, H. and Geffner, H. (2007). From conformant into classical planning: Efficient translations that may be complete too. In *ICAPS-07*.
- Palay, A. J. (1985). *Searching with Probabilities*. Pitman.
- Palmer, D. A. and Hearst, M. A. (1994). Adaptive sentence boundary disambiguation. In *Proc. Conference on Applied Natural Language Processing*, pp. 78–83.
- Palmer, S. (1999). *Vision Science: Photons to Phenomenology*. MIT Press.
- Papadimitriou, C. H. (1994). *Computational Complexity*. Addison Wesley.
- Papadimitriou, C. H., Tamaki, H., Raghavan, P., and Vempala, S. (1998). Latent semantic indexing: A probabilistic analysis. In *PODS-98*, pp. 159–168.
- Papadimitriou, C. H. and Tsitsiklis, J. N. (1987). The complexity of Markov decision processes. *Mathematics of Operations Research*, 12(3), 441–450.
- Papadimitriou, C. H. and Yannakakis, M. (1991). Shortest paths without a map. *Theoretical Computer Science*, 84(1), 127–150.
- Papavassiliou, V. and Russell, S. J. (1999). Convergence of reinforcement learning with general function approximators. In *IJCAI-99*, pp. 748–757.
- Parekh, R. and Honavar, V. (2001). DFA learning from simple examples. *Machine Learning*, 44, 9–35.
- Parisi, G. (1988). *Statistical field theory*. Addison-Wesley.
- Parisi, M. M. G. and Zecchina, R. (2002). Analytic and algorithmic solution of random satisfiability problems. *Science*, 297, 812–815.
- Parker, A., Nau, D. S., and Subrahmanian, V. S. (2005). Game-tree search with combinatorially large belief states. In *IJCAI-05*, pp. 254–259.
- Parker, D. B. (1985). Learning logic. Technical report TR-47, Center for Computational Research in Economics and Management Science, Massachusetts Institute of Technology.
- Parker, L. E. (1996). On the design of behavior-based multi-robot teams. *J. Advanced Robotics*, 10(6).
- Parr, R. and Russell, S. J. (1998). Reinforcement learning with hierarchies of machines. In Jordan, M. I., Kearns, M., and Solla, S. A. (Eds.), *NIPS 10*. MIT Press.

- Parzen, E.** (1962). On estimation of a probability density function and mode. *Annals of Mathematical Statistics*, 33, 1065–1076.
- Pasca, M.** and Harabagiu, S. M. (2001). High performance question/answering. In *SIGIR-01*, pp. 366–374.
- Pasca, M., Lin, D., Bigham, J., Lifchits, A., and Jain, A.** (2006). Organizing and searching the world wide web of facts—Step one: The one-million fact extraction challenge. In *AAAI-06*.
- Paskin, M.** (2001). Grammatical bigrams. In *NIPS*.
- Pasula, H., Marthi, B., Milch, B., Russell, S. J., and Shpitser, I.** (2003). Identity uncertainty and citation matching. In *NIPS 15*. MIT Press.
- Pasula, H.** and Russell, S. J. (2001). Approximate inference for first-order probabilistic languages. In *IJCAI-01*.
- Pasula, H., Russell, S. J., Ostland, M., and Ritov, Y.** (1999). Tracking many objects with many sensors. In *IJCAI-99*.
- Patashnik, O.** (1980). Qubic: 4x4x4 tic-tac-toe. *Mathematics Magazine*, 53(4), 202–216.
- Patrick, B. G., Almula, M., and Newborn, M.** (1992). An upper bound on the time complexity of iterative-deepening-A\*. *AIJ*, 5(2–4), 265–278.
- Paul, R. P.** (1981). *Robot Manipulators: Mathematics, Programming, and Control*. MIT Press.
- Pauls, A.** and Klein, D. (2009). K-best A\* parsing. In *ACL-09*.
- Peano, G.** (1889). *Arithmetices principia, nova methodo exposita*. Fratres Bocca, Turin.
- Pearce, J., Tambe, M., and Maheswaran, R.** (2008). Solving multiagent networks using distributed constraint optimization. *AIMag*, 29(3), 47–62.
- Pearl, J.** (1982a). Reverend Bayes on inference engines: A distributed hierarchical approach. In *AAAI-82*, pp. 133–136.
- Pearl, J.** (1982b). The solution for the branching factor of the alpha-beta pruning algorithm and its optimality. *CACM*, 25(8), 559–564.
- Pearl, J.** (1984). *Heuristics: Intelligent Search Strategies for Computer Problem Solving*. Addison-Wesley.
- Pearl, J.** (1986). Fusion, propagation, and structuring in belief networks. *AIJ*, 29, 241–288.
- Pearl, J.** (1987). Evidential reasoning using stochastic simulation of causal models. *AIJ*, 32, 247–257.
- Pearl, J.** (1988). *Probabilistic Reasoning in Intelligent Systems: Networks of Plausible Inference*. Morgan Kaufmann.
- Pearl, J.** (2000). *Causality: Models, Reasoning, and Inference*. Cambridge University Press.
- Pearl, J.** and Verma, T. (1991). A theory of inferred causation. In *KR-91*, pp. 441–452.
- Pearson, J.** and Jeavons, P. (1997). A survey of tractable constraint satisfaction problems. Technical report CSD-TR-97-15, Royal Holloway College, U. of London.
- Pease, A.** and Niles, I. (2002). IEEE standard upper ontology: A progress report. *Knowledge Engineering Review*, 17(1), 65–70.
- Pednault, E. P. D.** (1986). Formulating multiagent, dynamic-world problems in the classical planning framework. In *Reasoning about Actions and Plans: Proc. 1986 Workshop*, pp. 47–82.
- Peirce, C. S.** (1870). Description of a notation for the logic of relatives, resulting from an amplification of the conceptions of Boole's calculus of logic. *Memoirs of the American Academy of Arts and Sciences*, 9, 317–378.
- Peirce, C. S.** (1883). A theory of probable inference. Note B. The logic of relatives. In *Studies in Logic by Members of the Johns Hopkins University*, pp. 187–203, Boston.
- Peirce, C. S.** (1902). Logic as semiotic: The theory of signs. Unpublished manuscript; reprinted in (Buchler 1955).
- Peirce, C. S.** (1909). Existential graphs. Unpublished manuscript; reprinted in (Buchler 1955).
- Pelikan, M., Goldberg, D. E., and Cantu-Paz, E.** (1999). BOA: The Bayesian optimization algorithm. In *GECCO-99: Proc. Genetic and Evolutionary Computation Conference*, pp. 525–532.
- Pemberton, J. C.** and Korf, R. E. (1992). Incremental planning on graphs with cycles. In *AIPS-92*, pp. 525–532.
- Penberthy, J. S.** and Weld, D. S. (1992). UCPOP: A sound, complete, partial order planner for ADL. In *KR-92*, pp. 103–114.
- Peng, J.** and Williams, R. J. (1993). Efficient learning and planning within the Dyna framework. *Adaptive Behavior*, 2, 437–454.
- Penrose, R.** (1989). *The Emperor's New Mind*. Oxford University Press.
- Penrose, R.** (1994). *Shadows of the Mind*. Oxford University Press.
- Peot, M.** and Smith, D. E. (1992). Conditional nonlinear planning. In *ICAPS-92*, pp. 189–197.
- Pereira, F.** and Shieber, S. (1987). *Prolog and Natural-Language Analysis*. Center for the Study of Language and Information (CSLI).
- Pereira, F.** and Warren, D. H. D. (1980). Definite clause grammars for language analysis: A survey of the formalism and a comparison with augmented transition networks. *AIJ*, 13, 231–278.
- Pereira, F.** and Wright, R. N. (1991). Finite-state approximation of phrase structure grammars. In *ACL-91*, pp. 246–255.
- Perlis, A.** (1982). Epigrams in programming. *SIGPLAN Notices*, 17(9), 7–13.
- Perrin, B. E., Ralaivola, L., and Mazurie, A.** (2003). Gene networks inference using dynamic Bayesian networks. *Bioinformatics*, 19, II 138–II 148.
- Peterson, C.** and Anderson, J. R. (1987). A mean field theory learning algorithm for neural networks. *Complex Systems*, 1(5), 995–1019.
- Petrik, M.** and Zilberstein, S. (2009). Bilinear programming approach for multiagent planning. *JAIR*, 35, 235–274.
- Petrov, S.** and Klein, D. (2007a). Discriminative log-linear grammars with latent variables. In *NIPS*.
- Petrov, S.** and Klein, D. (2007b). Improved inference for unlexicalized parsing. In *ACL-07*.
- Petrov, S.** and Klein, D. (2007c). Learning and inference for hierarchically split pcfgs. In *AAAI-07*.
- Pfeffer, A., Koller, D., Milch, B., and Takusagawa, K. T.** (1999). SPOOK: A system for probabilistic object-oriented knowledge representation. In *UAI-99*.
- Pfeffer, A.** (2000). *Probabilistic Reasoning for Complex Systems*. Ph.D. thesis, Stanford University.
- Pfeffer, A.** (2007). The design and implementation of IBAL: A general-purpose probabilistic language. In Getoor, L. and Taskar, B. (Eds.), *Introduction to Statistical Relational Learning*. MIT Press.
- Pfeifer, R., Bongard, J., Brooks, R. A., and Iwasawa, S.** (2006). *How the Body Shapes the Way We Think: A New View of Intelligence*. Bradford.
- Pineau, J., Gordon, G., and Thrun, S.** (2003). Point-based value iteration: An anytime algorithm for POMDPs. In *IJCAI-03*.
- Pinedo, M.** (2008). *Scheduling: Theory, Algorithms, and Systems*. Springer Verlag.
- Pinkas, G.** and Dechter, R. (1995). Improving connectionist energy minimization. *JAIR*, 3, 223–248.
- Pinker, S.** (1995). Language acquisition. In Gleitman, L. R., Liberman, M., and Osherson, D. N. (Eds.), *An Invitation to Cognitive Science* (second edition), Vol. 1. MIT Press.
- Pinker, S.** (2003). *The Blank Slate: The Modern Denial of Human Nature*. Penguin.
- Pinto, D., McCallum, A., Wei, X., and Croft, W. B.** (2003). Table extraction using conditional random fields. In *SIGIR-03*.
- Pipatsrisawat, K.** and Darwiche, A. (2007). RSAT 2.0: SAT solver description. Tech. rep. D-153, Automated Reasoning Group, Computer Science Department, University of California, Los Angeles.
- Plaat, A., Schaeffer, J., Pijls, W., and de Bruin, A.** (1996). Best-first fixed-depth minimax algorithms. *AIJ*, 87(1–2), 255–293.
- Place, U. T.** (1956). Is consciousness a brain process? *British Journal of Psychology*, 47, 44–50.
- Platt, J.** (1999). Fast training of support vector machines using sequential minimal optimization. In *Advances in Kernel Methods: Support Vector Learning*, pp. 185–208. MIT Press.
- Plotkin, G.** (1971). *Automatic Methods of Inductive Inference*. Ph.D. thesis, Edinburgh University.
- Plotkin, G.** (1972). Building-in equational theories. In Meltzer, B. and Michie, D. (Eds.), *Machine Intelligence 7*, pp. 73–90. Edinburgh University Press.
- Pohl, I.** (1971). Bi-directional search. In Meltzer, B. and Michie, D. (Eds.), *Machine Intelligence 6*, pp. 127–140. Edinburgh University Press.
- Pohl, I.** (1973). The avoidance of (relative) catastrophe, heuristic competence, genuine dynamic weighting and computational issues in heuristic problem solving. In *IJCAI-73*, pp. 20–23.
- Pohl, I.** (1977). Practical and theoretical considerations in heuristic search algorithms. In Elcock, E. W. and Michie, D. (Eds.), *Machine Intelligence 8*, pp. 55–72. Ellis Horwood.
- Poli, R., Langdon, W., and McPhee, N.** (2008). *A Field Guide to Genetic Programming*. Lulu.com.
- Pomerleau, D. A.** (1993). *Neural Network Perception for Mobile Robot Guidance*. Kluwer.
- Ponte, J.** and Croft, W. B. (1998). A language modeling approach to information retrieval. In *SIGIR-98*, pp. 275–281.
- Poole, D.** (1993). Probabilistic Horn abduction and Bayesian networks. *AIJ*, 64, 81–129.
- Poole, D.** (2003). First-order probabilistic inference. In *IJCAI-03*, pp. 985–991.
- Poole, D., Mackworth, A. K., and Goebel, R.** (1998). *Computational intelligence: A logical approach*. Oxford University Press.

- Popper, K. R.** (1959). *The Logic of Scientific Discovery*. Basic Books.
- Popper, K. R.** (1962). *Conjectures and Refutations: The Growth of Scientific Knowledge*. Basic Books.
- Portner, P.** and Partee, B. H. (2002). *Formal Semantics: The Essential Readings*. Wiley-Blackwell.
- Post, E. L.** (1921). Introduction to a general theory of elementary propositions. *American Journal of Mathematics*, 43, 163–185.
- Poundstone, W.** (1993). *Prisoner's Dilemma*. Anchor.
- Pourret, O., Naïm, P., and Marcot, B.** (2008). *Bayesian Networks: A practical guide to applications*. Wiley.
- Prades, J. L. P., Loomes, G., and Brey, R.** (2008). Trying to estimate a monetary value for the QALY. Tech. rep. WP Econ 08.09, Univ. Pablo Olavide.
- Pradhan, M., Provan, G. M., Middleton, B., and Henrion, M.** (1994). Knowledge engineering for large belief networks. In *UAI-94*, pp. 484–490.
- Prawitz, D.** (1960). An improved proof procedure. *Theoria*, 26, 102–139.
- Press, W. H., Teukolsky, S. A., Vetterling, W. T., and Flannery, B. P.** (2007). *Numerical Recipes: The Art of Scientific Computing* (third edition). Cambridge University Press.
- Preston, J.** and Bishop, M. (2002). *Views into the Chinese Room: New Essays on Searle and Artificial Intelligence*. Oxford University Press.
- Prieditis, A. E.** (1993). Machine discovery of effective admissible heuristics. *Machine Learning*, 12(1–3), 117–141.
- Prinz, D. G.** (1952). Robot chess. *Research*, 5, 261–266.
- Prosser, P.** (1993). Hybrid algorithms for constraint satisfaction problems. *Computational Intelligence*, 9, 268–299.
- Pullum, G. K.** (1991). *The Great Eskimo Vocabulary Hoax (and Other Irreverent Essays on the Study of Language)*. University of Chicago Press.
- Pullum, G. K.** (1996). Learnability, hyperlearning, and the poverty of the stimulus. In *22nd Annual Meeting of the Berkeley Linguistics Society*.
- Puterman, M. L.** (1994). *Markov Decision Processes: Discrete Stochastic Dynamic Programming*. Wiley.
- Puterman, M. L.** and Shin, M. C. (1978). Modified policy iteration algorithms for discounted Markov decision problems. *Management Science*, 24(11), 1127–1137.
- Putnam, H.** (1960). Minds and machines. In Hook, S. (Ed.), *Dimensions of Mind*, pp. 138–164. Macmillan.
- Putnam, H.** (1963). ‘Degree of confirmation’ and inductive logic. In Schilpp, P. A. (Ed.), *The Philosophy of Rudolf Carnap*, pp. 270–292. Open Court.
- Putnam, H.** (1967). The nature of mental states. In Capitan, W. H. and Merrill, D. D. (Eds.), *Art, Mind, and Religion*, pp. 37–48. University of Pittsburgh Press.
- Putnam, H.** (1975). The meaning of “meaning”. In Gunderson, K. (Ed.), *Language, Mind and Knowledge: Minnesota Studies in the Philosophy of Science*. University of Minnesota Press.
- Pylyshyn, Z. W.** (1974). Minds, machines and phenomenology: Some reflections on Dreyfus’ “What Computers Can’t Do”. *Int. J. Cognitive Psychology*, 3(1), 57–77.
- Pylyshyn, Z. W.** (1984). *Computation and Cognition: Toward a Foundation for Cognitive Science*. MIT Press.
- Quillian, M. R.** (1961). A design for an understanding machine. Paper presented at a colloquium: Semantic Problems in Natural Language, King’s College, Cambridge, England.
- Quine, W. V.** (1953). Two dogmas of empiricism. In *From a Logical Point of View*, pp. 20–46. Harper and Row.
- Quine, W. V.** (1960). *Word and Object*. MIT Press.
- Quine, W. V.** (1982). *Methods of Logic* (fourth edition). Harvard University Press.
- Quinlan, J. R.** (1979). Discovering rules from large collections of examples: A case study. In Michie, D. (Ed.), *Expert Systems in the Microelectronic Age*. Edinburgh University Press.
- Quinlan, J. R.** (1986). Induction of decision trees. *Machine Learning*, 1, 81–106.
- Quinlan, J. R.** (1990). Learning logical definitions from relations. *Machine Learning*, 5(3), 239–266.
- Quinlan, J. R.** (1993). *C4.5: Programs for machine learning*. Morgan Kaufmann.
- Quinlan, J. R.** and Cameron-Jones, R. M. (1993). FOIL: A midterm report. In *ECML-93*, pp. 3–20.
- Quirk, R., Greenbaum, S., Leech, G., and Svartvik, J.** (1985). *A Comprehensive Grammar of the English Language*. Longman.
- Rabani, Y., Rabinovich, Y., and Sinclair, A.** (1998). A computational view of population genetics. *Random Structures and Algorithms*, 12(4), 313–334.
- Rabiner, L. R.** and Juang, B.-H. (1993). *Fundamentals of Speech Recognition*. Prentice-Hall.
- Ralphs, T. K., Ladanyi, L., and Saltzman, M. J.** (2004). A library hierarchy for implementing scalable parallel search algorithms. *J. Supercomputing*, 28(2), 215–234.
- Ramanan, D., Forsyth, D., and Zisserman, A.** (2007). Tracking people by learning their appearance. *IEEE Pattern Analysis and Machine Intelligence*.
- Ramsey, F. P.** (1931). Truth and probability. In Braithwaite, R. B. (Ed.), *The Foundations of Mathematics and Other Logical Essays*. Harcourt Brace Jovanovich.
- Ranzato, M., Poultney, C., Chopra, S., and LeCun, Y.** (2007). Efficient learning of sparse representations with an energy-based model. In *NIPS 19*, pp. 1137–1144.
- Raphson, J.** (1690). *Analysis aequationum universalis*. Apud Abelem Swalle, London.
- Rashevsky, N.** (1936). Physico-mathematical aspects of excitation and conduction in nerves. In *Cold Springs Harbor Symposia on Quantitative Biology. IV: Excitation Phenomena*, pp. 90–97.
- Rashevsky, N.** (1938). *Mathematical Biophysics: Physico-Mathematical Foundations of Biology*. University of Chicago Press.
- Rasmussen, C. E.** and Williams, C. K. I. (2006). *Gaussian Processes for Machine Learning*. MIT Press.
- Rassenti, S., Smith, V., and Bulfin, R.** (1982). A combinatorial auction mechanism for airport time slot allocation. *Bell Journal of Economics*, 13, 402–417.
- Ratner, D.** and Warmuth, M. (1986). Finding a shortest solution for the  $n \times n$  extension of the 15-puzzle is intractable. In *AAAI-86*, Vol. 1, pp. 168–172.
- Rauch, H. E., Tung, F., and Striebel, C. T.** (1965). Maximum likelihood estimates of linear dynamic systems. *AIAA Journal*, 3(8), 1445–1450.
- Rayward-Smith, V., Osman, I., Reeves, C., and Smith, G.** (Eds.). (1996). *Modern Heuristic Search Methods*. Wiley.
- Rechenberg, I.** (1965). Cybernetic solution path of an experimental problem. Library translation 1122, Royal Aircraft Establishment.
- Reeson, C. G., Huang, K.-C., Bayer, K. M., and Choueiry, B. Y.** (2007). An interactive constraint-based approach to sudoku. In *AAAI-07*, pp. 1976–1977.
- Regin, J.** (1994). A filtering algorithm for constraints of difference in CSPs. In *AAAI-94*, pp. 362–367.
- Reichenbach, H.** (1949). *The Theory of Probability: An Inquiry into the Logical and Mathematical Foundations of the Calculus of Probability* (second edition). University of California Press.
- Reid, D. B.** (1979). An algorithm for tracking multiple targets. *IEEE Trans. Automatic Control*, 24(6), 843–854.
- Reif, J.** (1979). Complexity of the mover’s problem and generalizations. In *FOCS-79*, pp. 421–427. IEEE.
- Reiter, R.** (1980). A logic for default reasoning. *AIJ*, 13(1–2), 81–132.
- Reiter, R.** (1991). The frame problem in the situation calculus: A simple solution (sometimes) and a completeness result for goal regression. In Lifschitz, V. (Ed.), *Artificial Intelligence and Mathematical Theory of Computation: Papers in Honor of John McCarthy*, pp. 359–380. Academic Press.
- Reiter, R.** (2001). *Knowledge in Action: Logical Foundations for Specifying and Implementing Dynamical Systems*. MIT Press.
- Renner, G.** and Ekart, A. (2003). Genetic algorithms in computer aided design. *Computer Aided Design*, 35(8), 709–726.
- Rényi, A.** (1970). *Probability Theory*. Elsevier/North-Holland.
- Reynolds, C. W.** (1987). Flocks, herds, and schools: A distributed behavioral model. *Computer Graphics*, 21, 25–34. SIGGRAPH ’87 Conference Proceedings.
- Riazanov, A.** and Voronkov, A. (2002). The design and implementation of VAMPIRE. *AI Communications*, 15(2–3), 91–110.
- Rich, E.** and Knight, K. (1991). *Artificial Intelligence* (second edition). McGraw-Hill.
- Richards, M.** and Amir, E. (2007). Opponent modeling in Scrabble. In *IJCAI-07*.
- Richardson, M., Bilmes, J., and Diorio, C.** (2000). Hidden-articulator Markov models: Performance improvements and robustness to noise. In *ICASSP-00*.
- Richter, S.** and Westphal, M. (2008). The LAMA planner. In *Proc. International Planning Competition at ICAPS*.
- Ridley, M.** (2004). *Evolution*. Oxford Reader.
- Rieger, C.** (1976). An organization of knowledge for problem solving and language comprehension. *AIJ*, 7, 89–127.



- Riley, J. and Samuelson, W. (1981). Optimal auctions. *American Economic Review*, 71, 381–392.
- Riloff, E. (1993). Automatically constructing a dictionary for information extraction tasks. In *AAAI-93*, pp. 811–816.
- Rintanen, J. (1999). Improvements to the evaluation of quantified Boolean formulae. In *IJCAI-99*, pp. 1192–1197.
- Rintanen, J. (2007). Asymptotically optimal encodings of conformant planning in QBF. In *AAAI-07*, pp. 1045–1050.
- Ripley, B. D. (1996). *Pattern Recognition and Neural Networks*. Cambridge University Press.
- Rissanen, J. (1984). Universal coding, information, prediction, and estimation. *IEEE Transactions on Information Theory*, IT-30(4), 629–636.
- Rissanen, J. (2007). *Information and Complexity in Statistical Modeling*. Springer.
- Ritchie, G. D. and Hanna, F. K. (1984). AM: A case study in AI methodology. *AIJ*, 23(3), 249–268.
- Rivest, R. (1987). Learning decision lists. *Machine Learning*, 2(3), 229–246.
- Roberts, L. G. (1963). Machine perception of three-dimensional solids. Technical report 315, MIT Lincoln Laboratory.
- Robertson, N. and Seymour, P. D. (1986). Graph minors. II. Algorithmic aspects of tree-width. *J. Algorithms*, 7(3), 309–322.
- Robertson, S. E. (1977). The probability ranking principle in IR. *J. Documentation*, 33, 294–304.
- Robertson, S. E. and Sparck Jones, K. (1976). Relevance weighting of search terms. *J. American Society for Information Science*, 27, 129–146.
- Robinson, A. and Voronkov, A. (2001). *Handbook of Automated Reasoning*. Elsevier.
- Robinson, J. A. (1965). A machine-oriented logic based on the resolution principle. *JACM*, 12, 23–41.
- Roche, E. and Schabes, Y. (1997). *Finite-State Language Processing (Language, Speech and Communication)*. Bradford Books.
- Rock, I. (1984). *Perception*. W. H. Freeman.
- Rosenblatt, F. (1957). The perceptron: A perceiving and recognizing automaton. Report 85-460-1, Project PARA, Cornell Aeronautical Laboratory.
- Rosenblatt, F. (1960). On the convergence of reinforcement procedures in simple perceptrons. Report VG-1196-G-4, Cornell Aeronautical Laboratory.
- Rosenblatt, F. (1962). *Principles of Neurodynamics: Perceptrons and the Theory of Brain Mechanisms*. Spartan.
- Rosenblatt, M. (1956). Remarks on some nonparametric estimates of a density function. *Annals of Mathematical Statistics*, 27, 832–837.
- Rosenblueth, A., Wiener, N., and Bigelow, J. (1943). Behavior, purpose, and teleology. *Philosophy of Science*, 10, 18–24.
- Rosenschein, J. S. and Zlotkin, G. (1994). *Rules of Encounter*. MIT Press.
- Rosenschein, S. J. (1985). Formal theories of knowledge in AI and robotics. *New Generation Computing*, 3(4), 345–357.
- Ross, P. E. (2004). Psyching out computer chess players. *IEEE Spectrum*, 41(2), 14–15.
- Ross, S. M. (1988). *A First Course in Probability* (third edition). Macmillan.
- Rossi, F., van Beek, P., and Walsh, T. (2006). *Handbook of Constraint Processing*. Elsevier.
- Roussel, P. (1975). Prolog: Manual de référence et d’utilisation. Tech. rep., Groupe d’Intelligence Artificielle, Université d’Aix-Marseille.
- Rouveiro, C. and Puget, J.-F. (1989). A simple and general solution for inverting resolution. In *Proc. European Working Session on Learning*, pp. 201–210.
- Rowat, P. F. (1979). *Representing the Spatial Experience and Solving Spatial problems in a Simulated Robot Environment*. Ph.D. thesis, University of British Columbia.
- Roweis, S. T. and Ghahramani, Z. (1999). A unifying review of Linear Gaussian Models. *Neural Computation*, 11(2), 305–345.
- Rowley, H., Baluja, S., and Kanade, T. (1996). Neural network-based face detection. In *CVPR*, pp. 203–208.
- Roy, N., Gordon, G., and Thrun, S. (2005). Finding approximate POMDP solutions through belief compression. *JAIR*, 23, 1–40.
- Rubin, D. (1988). Using the SIR algorithm to simulate posterior distributions. In Bernardo, J. M., de Groot, M. H., Lindley, D. V., and Smith, A. F. M. (Eds.), *Bayesian Statistics 3*, pp. 395–402. Oxford University Press.
- Rumelhart, D. E., Hinton, G. E., and Williams, R. J. (1986a). Learning internal representations by error propagation. In Rumelhart, D. E. and McClelland, J. L. (Eds.), *Parallel Distributed Processing*, Vol. 1, chap. 8, pp. 318–362. MIT Press.
- Rumelhart, D. E., Hinton, G. E., and Williams, R. J. (1986b). Learning representations by back-propagating errors. *Nature*, 323, 533–536.
- Rumelhart, D. E. and McClelland, J. L. (Eds.). (1986). *Parallel Distributed Processing*. MIT Press.
- Rummery, G. A. and Niranjan, M. (1994). Online Q-learning using connectionist systems. Tech. rep. CUED/F-INFENG/TR 166, Cambridge University Engineering Department.
- Ruspini, E. H., Lowrance, J. D., and Strat, T. M. (1992). Understanding evidential reasoning. *IJAR*, 6(3), 401–424.
- Russell, J. G. B. (1990). Is screening for abdominal aortic aneurysm worthwhile? *Clinical Radiology*, 41, 182–184.
- Russell, S. J. (1985). The compleat guide to MRS. Report STAN-CS-85-1080, Computer Science Department, Stanford University.
- Russell, S. J. (1986). A quantitative analysis of analogy by similarity. In *AAAI-86*, pp. 284–288.
- Russell, S. J. (1988). Tree-structured bias. In *AAAI-88*, Vol. 2, pp. 641–645.
- Russell, S. J. (1992). Efficient memory-bounded search methods. In *ECAI-92*, pp. 1–5.
- Russell, S. J. (1998). Learning agents for uncertain environments (extended abstract). In *COLT-98*, pp. 101–103.
- Russell, S. J., Binder, J., Koller, D., and Kanazawa, K. (1995). Local learning in probabilistic networks with hidden variables. In *IJCAI-95*, pp. 1146–52.
- Russell, S. J. and Grosz, B. (1987). A declarative approach to bias in concept learning. In *AAAI-87*.
- Russell, S. J. and Norvig, P. (2003). *Artificial Intelligence: A Modern Approach* (2nd edition). Prentice-Hall.
- Russell, S. J. and Subramanian, D. (1995). Provably bounded-optimal agents. *JAIR*, 3, 575–609.
- Russell, S. J., Subramanian, D., and Parr, R. (1993). Provably bounded optimal agents. In *IJCAI-93*, pp. 338–345.
- Russell, S. J. and Wefald, E. H. (1989). On optimal game-tree search using rational meta-reasoning. In *IJCAI-89*, pp. 334–340.
- Russell, S. J. and Wefald, E. H. (1991). *Do the Right Thing: Studies in Limited Rationality*. MIT Press.
- Russell, S. J. and Wolfe, J. (2005). Efficient belief-state AND-OR search, with applications to Kriegspiel. In *IJCAI-05*, pp. 278–285.
- Russell, S. J. and Zimdars, A. (2003). Q-decomposition of reinforcement learning agents. In *ICML-03*.
- Rustagi, J. S. (1976). *Variational Methods in Statistics*. Academic Press.
- Sabin, D. and Freuder, E. C. (1994). Contradicting conventional wisdom in constraint satisfaction. In *ECAI-94*, pp. 125–129.
- Sacerdoti, E. D. (1974). Planning in a hierarchy of abstraction spaces. *AIJ*, 5(2), 115–135.
- Sacerdoti, E. D. (1975). The nonlinear nature of plans. In *IJCAI-75*, pp. 206–214.
- Sacerdoti, E. D. (1977). *A Structure for Plans and Behavior*. Elsevier/North-Holland.
- Sadri, F. and Kowalski, R. (1995). Variants of the event calculus. In *ICLP-95*, pp. 67–81.
- Sahami, M., Dumais, S. T., Heckerman, D., and Horvitz, E. J. (1998). A Bayesian approach to filtering junk E-mail. In *Learning for Text Categorization: Papers from the 1998 Workshop*.
- Sahami, M., Hearst, M. A., and Saund, E. (1996). Applying the multiple cause mixture model to text categorization. In *ICML-96*, pp. 435–443.
- Sahin, N. T., Pinker, S., Cash, S. S., Schomer, D., and Halgren, E. (2009). Sequential processing of lexical, grammatical, and phonological information within Broca’s area. *Science*, 326(5291), 445–449.
- Sakuta, M. and Iida, H. (2002). AND/OR-tree search for solving problems with uncertainty: A case study using screen-shogi problems. *IPSJ Journal*, 43(01).
- Salomaa, A. (1969). Probabilistic and weighted grammars. *Information and Control*, 15, 529–544.
- Salton, G., Wong, A., and Yang, C. S. (1975). A vector space model for automatic indexing. *CACM*, 18(11), 613–620.
- Samuel, A. L. (1959). Some studies in machine learning using the game of checkers. *IBM Journal of Research and Development*, 3(3), 210–229.
- Samuel, A. L. (1967). Some studies in machine learning using the game of checkers II—Recent progress. *IBM Journal of Research and Development*, 11(6), 601–617.
- Samuelsson, C. and Rayner, M. (1991). Quantitative evaluation of explanation-based learning as an optimization tool for a large-scale natural language system. In *IJCAI-91*, pp. 609–615.
- Sarawagi, S. (2007). Information extraction. *Foundations and Trends in Databases*, 1(3), 261–377.
- Satia, J. K. and Lave, R. E. (1973). Markovian decision processes with probabilistic observation of states. *Management Science*, 20(1), 1–13.
- Sato, T. and Kameya, Y. (1997). PRISM: A symbolic-statistical modeling language. In *IJCAI-97*, pp. 1330–1335.

- Saul, L. K., Jaakkola, T., and Jordan, M. I. (1996). Mean field theory for sigmoid belief networks. *JAIR*, 4, 61–76.
- Savage, L. J. (1954). *The Foundations of Statistics*. Wiley.
- Sayre, K. (1993). Three more flaws in the computational model. Paper presented at the APA (Central Division) Annual Conference, Chicago, Illinois.
- Schaeffer, J. (2008). *One Jump Ahead: Computer Perfection at Checkers*. Springer-Verlag.
- Schaeffer, J., Burch, N., Björnsson, Y., Kishimoto, A., Müller, M., Lake, R., Lu, P., and Sutphen, S. (2007). Checkers is solved. *Science*, 317, 1518–1522.
- Schank, R. C. and Abelson, R. P. (1977). *Scripts, Plans, Goals, and Understanding*. Lawrence Erlbaum Associates.
- Schank, R. C. and Riesbeck, C. (1981). *Inside Computer Understanding: Five Programs Plus Miniatures*. Lawrence Erlbaum Associates.
- Schaphire, R. E. and Singer, Y. (2000). Boostexter: A boosting-based system for text categorization. *Machine Learning*, 39(2/3), 135–168.
- Schaphire, R. E. (1990). The strength of weak learnability. *Machine Learning*, 5(2), 197–227.
- Schaphire, R. E. (2003). The boosting approach to machine learning: An overview. In Denison, D. D., Hansen, M. H., Holmes, C., Mallick, B., and Yu, B. (Eds.), *Nonlinear Estimation and Classification*. Springer.
- Schmid, C. and Mohr, R. (1996). Combining grey-value invariants with local constraints for object recognition. In *CVPR*.
- Schmolze, J. G. and Lipkis, T. A. (1983). Classification in the KL-ONE representation system. In *IJCAI-83*, pp. 330–332.
- Schölkopf, B. and Smola, A. J. (2002). *Learning with Kernels*. MIT Press.
- Schöning, T. (1999). A probabilistic algorithm for k-SAT and constraint satisfaction problems. In *FOCS-99*, pp. 410–414.
- Schoppers, M. J. (1987). Universal plans for reactive robots in unpredictable environments. In *IJCAI-87*, pp. 1039–1046.
- Schoppers, M. J. (1989). In defense of reaction plans as caches. *AIMag*, 10(4), 51–60.
- Schröder, E. (1877). *Der Operationskreis des Logikkalküls*. B. G. Teubner, Leipzig.
- Schultz, W., Dayan, P., and Montague, P. R. (1997). A neural substrate of prediction and reward. *Science*, 275, 1593.
- Schulz, D., Burgard, W., Fox, D., and Cremers, A. B. (2003). People tracking with mobile robots using sample-based joint probabilistic data association filters. *Int. J. Robotics Research*, 22(2), 99–116.
- Schulz, S. (2004). System Description: E 0.81. In *Proc. International Joint Conference on Automated Reasoning*, Vol. 3097 of *LNAI*, pp. 223–228.
- Schütze, H. (1995). *Ambiguity in Language Learning: Computational and Cognitive Models*. Ph.D. thesis, Stanford University. Also published by CSLI Press, 1997.
- Schwartz, J. T., Scharir, M., and Hopcroft, J. (1987). *Planning, Geometry and Complexity of Robot Motion*. Ablex Publishing Corporation.
- Schwartz, S. P. (Ed.). (1977). *Naming, Necessity, and Natural Kinds*. Cornell University Press.
- Scott, D. and Krauss, P. (1966). Assigning probabilities to logical formulas. In Hintikka, J. and Suppes, P. (Eds.), *Aspects of Inductive Logic*. North-Holland.
- Searle, J. R. (1980). Minds, brains, and programs. *BBS*, 3, 417–457.
- Searle, J. R. (1984). *Minds, Brains and Science*. Harvard University Press.
- Searle, J. R. (1990). Is the brain's mind a computer program? *Scientific American*, 262, 26–31.
- Searle, J. R. (1992). *The Rediscovery of the Mind*. MIT Press.
- Sebastiani, F. (2002). Machine learning in automated text categorization. *ACM Computing Surveys*, 34(1), 1–47.
- Segaran, T. (2007). *Programming Collective Intelligence: Building Smart Web 2.0 Applications*. O'Reilly.
- Selman, B., Kautz, H., and Cohen, B. (1996). Local search strategies for satisfiability testing. In *DI-MACS Series in Discrete Mathematics and Theoretical Computer Science, Volume 26*, pp. 521–532. American Mathematical Society.
- Selman, B. and Levesque, H. J. (1993). The complexity of path-based defeasible inheritance. *AIJ*, 62(2), 303–339.
- Selman, B., Levesque, H. J., and Mitchell, D. (1992). A new method for solving hard satisfiability problems. In *AAAI-92*, pp. 440–446.
- Sha, F. and Pereira, F. (2003). Shallow parsing with conditional random fields. Technical report CIS TR MS-CIS-02-35, Univ. of Penn.
- Shachter, R. D. (1986). Evaluating influence diagrams. *Operations Research*, 34, 871–882.
- Shachter, R. D. (1998). Bayes-ball: The rational pastime (for determining irrelevance and requisite information in belief networks and influence diagrams). In *UAI-98*, pp. 480–487.
- Shachter, R. D., D'Ambrosio, B., and Del Favero, B. A. (1990). Symbolic probabilistic inference in belief networks. In *AAAI-90*, pp. 126–131.
- Shachter, R. D. and Kenley, C. R. (1989). Gaussian influence diagrams. *Management Science*, 35(5), 527–550.
- Shachter, R. D. and Peot, M. (1989). Simulation approaches to general probabilistic inference on belief networks. In *UAI-98*.
- Shachter, R. D. and Heckerman, D. (1987). Thinking backward for knowledge acquisition. *AIMag*, 3(Fall).
- Shafer, G. (1976). *A Mathematical Theory of Evidence*. Princeton University Press.
- Shahookar, K. and Mazumder, P. (1991). VLSI cell placement techniques. *Computing Surveys*, 23(2), 143–220.
- Shanahan, M. (1997). *Solving the Frame Problem*. MIT Press.
- Shanahan, M. (1999). The event calculus explained. In Wooldridge, M. J. and Veloso, M. (Eds.), *Artificial Intelligence Today*, pp. 409–430. Springer-Verlag.
- Shankar, N. (1986). *Proof-Checking Metamathematics*. Ph.D. thesis, Computer Science Department, University of Texas at Austin.
- Shannon, C. E. and Weaver, W. (1949). *The Mathematical Theory of Communication*. University of Illinois Press.
- Shannon, C. E. (1948). A mathematical theory of communication. *Bell Systems Technical Journal*, 27, 379–423, 623–656.
- Shannon, C. E. (1950). Programming a computer for playing chess. *Philosophical Magazine*, 41(4), 256–275.
- Shaparau, D., Pistore, M., and Traverso, P. (2008). Fusing procedural and declarative planning goals for nondeterministic domains. In *AAAI-08*.
- Shapiro, E. (1981). An algorithm that infers theories from facts. In *IJCAI-81*, p. 1064.
- Shapiro, S. C. (Ed.). (1992). *Encyclopedia of Artificial Intelligence* (second edition). Wiley.
- Shapley, S. (1953). Stochastic games. In *PNAS*, Vol. 39, pp. 1095–1100.
- Shatkay, H. and Kaelbling, L. P. (1997). Learning topological maps with weak local odometric information. In *IJCAI-97*.
- Shelley, M. (1818). *Frankenstein: Or, the Modern Prometheus*. Pickering and Chatto.
- Sheppard, B. (2002). World-championship-caliber scrabble. *AIJ*, 134(1–2), 241–275.
- Shi, J. and Malik, J. (2000). Normalized cuts and image segmentation. *PAMI*, 22(8), 888–905.
- Shieber, S. (1994). Lessons from a restricted Turing Test. *CACM*, 37, 70–78.
- Shieber, S. (Ed.). (2004). *The Turing Test*. MIT Press.
- Shoham, Y. (1993). Agent-oriented programming. *AIJ*, 60(1), 51–92.
- Shoham, Y. (1994). *Artificial Intelligence Techniques in Prolog*. Morgan Kaufmann.
- Shoham, Y. and Leyton-Brown, K. (2009). *Multiagent Systems: Algorithmic, Game-Theoretic, and Logical Foundations*. Cambridge Univ. Press.
- Shoham, Y., Powers, R., and Grenager, T. (2004). If multi-agent learning is the answer, what is the question? In *Proc. AAI Fall Symposium on Artificial Multi-Agent Learning*.
- Shortliffe, E. H. (1976). *Computer-Based Medical Consultations: MYCIN*. Elsevier/North-Holland.
- Sietsma, J. and Dow, R. J. F. (1988). Neural net pruning—Why and how. In *IEEE International Conference on Neural Networks*, pp. 325–333.
- Siklossy, L. and Dreussi, J. (1973). An efficient robot planner which generates its own procedures. In *IJCAI-73*, pp. 423–430.
- Silverstein, C., Henzinger, M., Marais, H., and Moricz, M. (1998). Analysis of a very large altavista query log. Tech. rep. 1998-014, Digital Systems Research Center.
- Simmons, R. and Koenig, S. (1995). Probabilistic robot navigation in partially observable environments. In *IJCAI-95*, pp. 1080–1087. IJCAI, Inc.
- Simon, D. (2006). *Optimal State Estimation: Kalman, H Infinity, and Nonlinear Approaches*. Wiley.
- Simon, H. A. (1947). *Administrative behavior*. Macmillan.
- Simon, H. A. (1957). *Models of Man: Social and Rational*. John Wiley.
- Simon, H. A. (1963). Experiments with a heuristic compiler. *JACM*, 10, 493–506.
- Simon, H. A. (1981). *The Sciences of the Artificial* (second edition). MIT Press.

- Simon, H. A.** (1982). *Models of Bounded Rationality, Volume 1*. The MIT Press.
- Simon, H. A.** and **Newell, A.** (1958). Heuristic problem solving: The next advance in operations research. *Operations Research*, 6, 1–10.
- Simon, H. A.** and **Newell, A.** (1961). Computer simulation of human thinking and problem solving. *Dataamation, June/July*, 35–37.
- Simon, J. C.** and **Dubois, O.** (1989). Number of solutions to satisfiability instances—Applications to knowledge bases. *AIJ*, 3, 53–65.
- Simonis, H.** (2005). Sudoku as a constraint problem. In *CP Workshop on Modeling and Reformulating Constraint Satisfaction Problems*, pp. 13–27.
- Singer, P. W.** (2009). *Wired for War*. Penguin Press.
- Singh, P., Lin, T., Mueller, E. T., Lim, G., Perkins, T., and Zhu, W. L.** (2002). Open mind common sense: Knowledge acquisition from the general public. In *Proc. First International Conference on Ontologies, Databases, and Applications of Semantics for Large Scale Information Systems*.
- Singhal, A., Buckley, C., and Mitra, M.** (1996). Pivoted document length normalization. In *SIGIR-96*, pp. 21–29.
- Sittler, R. W.** (1964). An optimal data association problem in surveillance theory. *IEEE Transactions on Military Electronics*, 8(2), 125–139.
- Skinner, B. F.** (1953). *Science and Human Behavior*. Macmillan.
- Skolem, T.** (1920). Logisch-kombinatorische Untersuchungen über die Erfüllbarkeit oder Beweisbarkeit mathematischer Sätze nebst einem Theoreme über die dichte Mengen. *Videnskapsselskapets skrifter, I. Matematisk-naturvidenskabelig klasse*, 4.
- Skolem, T.** (1928). Über die mathematische Logik. *Norsk matematisk tidsskrift*, 10, 125–142.
- Slagle, J. R.** (1963). A heuristic program that solves symbolic integration problems in freshman calculus. *JACM*, 10(4).
- Slate, D. J.** and **Atkin, L. R.** (1977). CHESS 4.5—Northwestern University chess program. In **Frey, P. W.** (Ed.), *Chess Skill in Man and Machine*, pp. 82–118. Springer-Verlag.
- Slater, E.** (1950). Statistics for the chess computer and the factor of mobility. In *Symposium on Information Theory*, pp. 150–152. Ministry of Supply.
- Sleator, D.** and **Temperley, D.** (1993). Parsing English with a link grammar. In *Third Annual Workshop on Parsing technologies*.
- Slocum, J.** and **Sonneveld, D.** (2006). *The 15 Puzzle*. Slocum Puzzle Foundation.
- Sloman, A.** (1978). *The Computer Revolution in Philosophy*. Harvester Press.
- Smallwood, R. D.** and **Sondik, E. J.** (1973). The optimal control of partially observable Markov processes over a finite horizon. *Operations Research*, 21, 1071–1088.
- Smart, J. J. C.** (1959). Sensations and brain processes. *Philosophical Review*, 68, 141–156.
- Smith, B.** (2004). Ontology. In **Floridi, L.** (Ed.), *The Blackwell Guide to the Philosophy of Computing and Information*, pp. 155–166. Wiley-Blackwell.
- Smith, D. E., Genesereth, M. R., and Ginsberg, M. L.** (1986). Controlling recursive inference. *AIJ*, 30(3), 343–389.
- Smith, D. A.** and **Eisner, J.** (2008). Dependency parsing by belief propagation. In *EMNLP*, pp. 145–156.
- Smith, D. E.** and **Weld, D. S.** (1998). Conformant Graphplan. In *AAAI-98*, pp. 889–896.
- Smith, J. Q.** (1988). *Decision Analysis*. Chapman and Hall.
- Smith, J. E.** and **Winkler, R. L.** (2006). The optimizer’s curse: Skepticism and postdecision surprise in decision analysis. *Management Science*, 52(3), 311–322.
- Smith, J. M.** (1982). *Evolution and the Theory of Games*. Cambridge University Press.
- Smith, J. M.** and **Szathmáry, E.** (1999). *The Origins of Life: From the Birth of Life to the Origin of Language*. Oxford University Press.
- Smith, M. K., Welty, C., and McGuinness, D.** (2004). OWL web ontology language guide. Tech. rep., W3C.
- Smith, R. C.** and **Cheeseman, P.** (1986). On the representation and estimation of spatial uncertainty. *Int. J. Robotics Research*, 5(4), 56–68.
- Smith, S. J. J., Nau, D. S., and Throop, T. A.** (1998). Success in spades: Using AI planning techniques to win the world championship of computer bridge. In *AAAI-98*, pp. 1079–1086.
- Smolensky, P.** (1988). On the proper treatment of connectionism. *BBS*, 2, 1–74.
- Smullyan, R. M.** (1995). *First-Order Logic*. Dover.
- Smyth, P., Heckerman, D., and Jordan, M. I.** (1997). Probabilistic independence networks for hidden Markov probability models. *Neural Computation*, 9(2), 227–269.
- Snell, M. B.** (2008). Do you have free will? John Searle reflects on various philosophical questions in light of new research on the brain. *California Alumni Magazine, March/April*.
- Soderland, S.** and **Weld, D. S.** (1991). Evaluating nonlinear planning. Technical report TR-91-02-03, University of Washington Department of Computer Science and Engineering.
- Solomonoff, R. J.** (1964). A formal theory of inductive inference. *Information and Control*, 7, 1–22, 224–254.
- Solomonoff, R. J.** (2009). Algorithmic probability—theory and applications. In **Emmert-Streib, F.** and **Dehmer, M.** (Eds.), *Information Theory and Statistical Learning*. Springer.
- Sondik, E. J.** (1971). *The Optimal Control of Partially Observable Markov Decision Processes*. Ph.D. thesis, Stanford University.
- Sosic, R.** and **Gu, J.** (1994). Efficient local search with conflict minimization: A case study of the n-queens problem. *IEEE Transactions on Knowledge and Data Engineering*, 6(5), 661–668.
- Sowa, J.** (1999). *Knowledge Representation: Logical, Philosophical, and Computational Foundations*. Blackwell.
- Spaan, M. T. J.** and **Vlassis, N.** (2005). Perseus: Randomized point-based value iteration for POMDPs. *JAIR*, 24, 195–220.
- Spiegelhalter, D. J., Dawid, A. P., Lauritzen, S., and Cowell, R.** (1993). Bayesian analysis in expert systems. *Statistical Science*, 8, 219–282.
- Spielberg, S.** (2001). AI. Movie.
- Spirtes, P., Glymour, C., and Scheines, R.** (1993). *Causation, prediction, and search*. Springer-Verlag.
- Srinivasan, A., Muggleton, S. H., King, R. D., and Sternberg, M. J. E.** (1994). Mutagenesis: ILP experiments in a non-determinate biological domain. In *ILP-94*, Vol. 237, pp. 217–232.
- Srivas, M.** and **Bickford, M.** (1990). Formal verification of a pipelined microprocessor. *IEEE Software*, 7(5), 52–64.
- Staab, S.** (2004). *Handbook on Ontologies*. Springer.
- Stallman, R. M.** and **Sussman, G. J.** (1977). Forward reasoning and dependency-directed backtracking in a system for computer-aided circuit analysis. *AIJ*, 9(2), 135–196.
- Stanfill, C.** and **Waltz, D.** (1986). Toward memory-based reasoning. *CACM*, 29(12), 1213–1228.
- Stefik, M.** (1995). *Introduction to Knowledge Systems*. Morgan Kaufmann.
- Stein, L. A.** (2002). *Interactive Programming in Java (pre-publication draft)*. Morgan Kaufmann.
- Stephenson, T., Bourlard, H., Bengio, S., and Morris, A.** (2000). Automatic speech recognition using dynamic bayesian networks with both acoustic and articulatory features. In *ICSLP-00*, pp. 951–954.
- Stergiou, K.** and **Walsh, T.** (1999). The difference all-difference makes. In *IJCAI-99*, pp. 414–419.
- Stickel, M. E.** (1992). A prolog technology theorem prover: a new exposition and implementation in prolog. *Theoretical Computer Science*, 104, 109–128.
- Stiller, L.** (1992). KQNKRR. *J. International Computer Chess Association*, 15(1), 16–18.
- Stiller, L.** (1996). Multilinear algebra and chess endgames. In **Nowakowski, R. J.** (Ed.), *Games of No Chance, MSRI, 29, 1996*. Mathematical Sciences Research Institute.
- Stockman, G.** (1979). A minimax algorithm better than alpha-beta? *AIJ*, 12(2), 179–196.
- Stoffel, K., Taylor, M., and Hendlar, J.** (1997). Efficient management of very large ontologies. In *Proc. AAAI-97*, pp. 442–447.
- Stolcke, A.** and **Omohundro, S.** (1994). Inducing probabilistic grammars by Bayesian model merging. In *Proc. Second International Colloquium on Grammatical Inference and Applications (ICGI-94)*, pp. 106–118.
- Stone, M.** (1974). Cross-validators choice and assessment of statistical predictions. *J. Royal Statistical Society*, 36(111–133).
- Stone, P.** (2000). *Layered Learning in Multi-Agent Systems: A Winning Approach to Robotic Soccer*. MIT Press.
- Stone, P.** (2003). Multiagent competitions and research: Lessons from RoboCup and TAC. In **Lima, P. U.** and **Rojas, P.** (Eds.), *RoboCup-2002: Robot Soccer World Cup VI*, pp. 224–237. Springer Verlag.
- Stone, P., Kaminka, G., and Rosenschein, J. S.** (2009). Leading a best-response teammate in an ad hoc team. In *AAMAS Workshop in Agent Mediated Electronic Commerce*.
- Stork, D. G.** (2004). Optics and realism in renaissance art. *Scientific American*, pp. 77–83.
- Strachey, C.** (1952). Logical or non-mathematical programmes. In *Proc. 1952 ACM national meeting (Toronto)*, pp. 46–49.
- Stratonovich, R. L.** (1959). Optimum nonlinear systems which bring about a separation of a signal with constant parameters from noise. *Radiofizika*, 2(6), 892–901.
- Stratonovich, R. L.** (1965). On value of information. *Izvestiya of USSR Academy of Sciences, Technical Cybernetics*, 5, 3–12.
- Subramanian, D.** and **Feldman, R.** (1990). The utility of EBL in recursive domain theories. In *AAAI-90*, Vol. 2, pp. 942–949.

- Subramanian, D.** and Wang, E. (1994). Constraint-based kinematic synthesis. In *Proc. International Conference on Qualitative Reasoning*, pp. 228–239.
- Sussman, G. J.** (1975). *A Computer Model of Skill Acquisition*. Elsevier/North-Holland.
- Sutcliffe, G.** and Suttner, C. (1998). The TPTP Problem Library: CNF Release v1.2.1. *JAR*, 21(2), 177–203.
- Sutcliffe, G.**, Schulz, S., Claessen, K., and Gelder, A. V. (2006). Using the TPTP language for writing derivations and finite interpretations. In *Proc. International Joint Conference on Automated Reasoning*, pp. 67–81.
- Sutherland, I.** (1963). Sketchpad: A man-machine graphical communication system. In *Proc. Spring Joint Computer Conference*, pp. 329–346.
- Sutton, C.** and McCallum, A. (2007). An introduction to conditional random fields for relational learning. In Getoor, L. and Taskar, B. (Eds.), *Introduction to Statistical Relational Learning*. MIT Press.
- Sutton, R. S.** (1988). Learning to predict by the methods of temporal differences. *Machine Learning*, 3, 9–44.
- Sutton, R. S.**, McAllester, D. A., Singh, S. P., and Mansour, Y. (2000). Policy gradient methods for reinforcement learning with function approximation. In Solla, S. A., Leen, T. K., and Müller, K.-R. (Eds.), *NIPS 12*, pp. 1057–1063. MIT Press.
- Sutton, R. S.** (1990). Integrated architectures for learning, planning, and reacting based on approximating dynamic programming. In *ICML-90*, pp. 216–224.
- Sutton, R. S.** and Barto, A. G. (1998). *Reinforcement Learning: An Introduction*. MIT Press.
- SVore, K.** and Burges, C. (2009). A machine learning approach for improved bm25 retrieval. In *Proc. Conference on Information Knowledge Management*.
- Swade, D.** (2000). *Difference Engine: Charles Babbage And The Quest To Build The First Computer*. Diane Publishing Co.
- Swierling, P.** (1959). First order error propagation in a stagewise smoothing procedure for satellite observations. *J. Astronautical Sciences*, 6, 46–52.
- Swift, T.** and Warren, D. S. (1994). Analysis of SLG-WAM evaluation of definite programs. In *Logic Programming. Proc. 1994 International Symposium on Logic programming*, pp. 219–235.
- Syrjänen, T.** (2000). Lparse 1.0 user's manual. [saturn.tcs.hut.fi/Software/smodels](http://saturn.tcs.hut.fi/Software/smodels).
- Tadepalli, P.** (1993). Learning from queries and examples with tree-structured bias. In *ICML-93*, pp. 322–329.
- Tadepalli, P.**, Givan, R., and Driessens, K. (2004). Relational reinforcement learning: An overview. In *ICML-04*.
- Tait, P. G.** (1880). Note on the theory of the “15 puzzle”. *Proc. Royal Society of Edinburgh*, 10, 664–665.
- Tamaki, H.** and Sato, T. (1986). OLD resolution with tabulation. In *ICLP-86*, pp. 84–98.
- Tarjan, R. E.** (1983). *Data Structures and Network Algorithms*. CBMS-NSF Regional Conference Series in Applied Mathematics. SIAM (Society for Industrial and Applied Mathematics).
- Tarski, A.** (1935). Die Wahrheitsbegriff in den formalisierten Sprachen. *Studia Philosophica*, 1, 261–405.
- Tarski, A.** (1941). *Introduction to Logic and to the Methodology of Deductive Sciences*. Dover.
- Tarski, A.** (1956). *Logic, Semantics, Metamathematics: Papers from 1923 to 1938*. Oxford University Press.
- Tash, J. K.** and Russell, S. J. (1994). Control strategies for a stochastic planner. In *AAAI-94*, pp. 1079–1085.
- Taskar, B.**, Abbeel, P., and Koller, D. (2002). Discriminative probabilistic models for relational data. In *UAI-02*.
- Tate, A.** (1975a). Interacting goals and their use. In *IJCAI-75*, pp. 215–218.
- Tate, A.** (1975b). *Using Goal Structure to Direct Search in a Problem Solver*. Ph.D. thesis, University of Edinburgh.
- Tate, A.** (1977). Generating project networks. In *IJCAI-77*, pp. 888–893.
- Tate, A.** and Whiter, A. M. (1984). Planning with multiple resource constraints and an application to a naval planning problem. In *Proc. First Conference on AI Applications*, pp. 410–416.
- Tatman, J. A.** and Shachter, R. D. (1990). Dynamic programming and influence diagrams. *IEEE Transactions on Systems, Man and Cybernetics*, 20(2), 365–379.
- Tattersall, C.** (1911). *A Thousand End-Games: A Collection of Chess Positions That Can be Won or Drawn by the Best Play*. British Chess Magazine.
- Taylor, G.**, Stensrud, B., Eitelman, S., and Dunham, C. (2007). Towards automating airspace management. In *Proc. Computational Intelligence for Security and Defense Applications (CISDA) Conference*, pp. 1–5.
- Tenenbaum, J.**, Griffiths, T., and Niyogi, S. (2007). Intuitive theories as grammars for causal inference. In Gopnik, A. and Schulz, L. (Eds.), *Causal learning: Psychology, Philosophy, and Computation*. Oxford University Press.
- Tesauro, G.** (1992). Practical issues in temporal difference learning. *Machine Learning*, 8(3–4), 257–277.
- Tesauro, G.** (1995). Temporal difference learning and TD-Gammon. *CACM*, 38(3), 58–68.
- Tesauro, G.** and Sejnowski, T. (1989). A parallel network that learns to play backgammon. *AIJ*, 39(3), 357–390.
- Teyssier, M.** and Koller, D. (2005). Ordering-based search: A simple and effective algorithm for learning Bayesian networks. In *UAI-05*, pp. 584–590.
- Thaler, R.** (1992). *The Winner's Curse: Paradoxes and Anomalies of Economic Life*. Princeton University Press.
- Thaler, R.** and Sunstein, C. (2009). *Nudge: Improving Decisions About Health, Wealth, and Happiness*. Penguin.
- Theocharous, G.**, Murphy, K., and Kaelbling, L. P. (2004). Representing hierarchical POMDPs as DBNs for multi-scale robot localization. In *ICRA-04*.
- Thiele, T.** (1880). Om anvendelse af mindste kvadraters metode i nogle tilfælde, hvor en komplikation af visse slags uensartede tilfældige fejlklæder giver fejlene en ‘systematisk’ karakter. *Vidensk. Selsk. Skr. 5. Rk., naturvid. og mat. Afd.*, 12, 381–408.
- Thielscher, M.** (1999). From situation calculus to fluent calculus: State update axioms as a solution to the inferential frame problem. *AIJ*, 111(1–2), 277–299.
- Thompson, K.** (1986). Retrograde analysis of certain endgames. *J. International Computer Chess Association*, May, 131–139.
- Thompson, K.** (1996). 6-piece endgames. *J. International Computer Chess Association*, 19(4), 215–226.
- Thrun, S.**, Burgard, W., and Fox, D. (2005). *Probabilistic Robotics*. MIT Press.
- Thrun, S.**, Fox, D., and Burgard, W. (1998). A probabilistic approach to concurrent mapping and localization for mobile robots. *Machine Learning*, 31, 29–53.
- Thrun, S.** (2006). Stanley, the robot that won the DARPA Grand Challenge. *J. Field Robotics*, 23(9), 661–692.
- Tikhonov, A. N.** (1963). Solution of incorrectly formulated problems and the regularization method. *Soviet Math. Dokl.*, 5, 1035–1038.
- Titterton, D. M.**, Smith, A. F. M., and Makov, U. E. (1985). *Statistical analysis of finite mixture distributions*. Wiley.
- Toffler, A.** (1970). *Future Shock*. Bantam.
- Tomasi, C.** and Kanade, T. (1992). Shape and motion from image streams under orthography: A factorization method. *IJCV*, 9, 137–154.
- Torralla, A.**, Fergus, R., and Weiss, Y. (2008). Small codes and large image databases for recognition. In *CVPR*, pp. 1–8.
- Trucco, E.** and Verri, A. (1998). *Introductory Techniques for 3-D Computer Vision*. Prentice Hall.
- Tsitsiklis, J. N.** and Van Roy, B. (1997). An analysis of temporal-difference learning with function approximation. *IEEE Transactions on Automatic Control*, 42(5), 674–690.
- Tumer, K.** and Wolpert, D. (2000). Collective intelligence and braess' paradox. In *AAAI-00*, pp. 104–109.
- Turcotte, M.**, Muggleton, S. H., and Sternberg, M. J. E. (2001). Automated discovery of structural signatures of protein fold and function. *J. Molecular Biology*, 306, 591–605.
- Turing, A.** (1936). On computable numbers, with an application to the Entscheidungsproblem. *Proc. London Mathematical Society, 2nd series*, 42, 230–265.
- Turing, A.** (1948). Intelligent machinery. Tech. rep., National Physical Laboratory, reprinted in (Ince, 1992).
- Turing, A.** (1950). Computing machinery and intelligence. *Mind*, 59, 433–460.
- Turing, A.**, Strachey, C., Bates, M. A., and Bowden, B. V. (1953). Digital computers applied to games. In Bowden, B. V. (Ed.), *Faster than Thought*, pp. 286–310. Pitman.
- Tversky, A.** and Kahneman, D. (1982). Causal schemata in judgements under uncertainty. In Kahneman, D., Slovic, P., and Tversky, A. (Eds.), *Judgement Under Uncertainty: Heuristics and Biases*. Cambridge University Press.
- Ullman, J. D.** (1985). Implementation of logical query languages for databases. *ACM Transactions on Database Systems*, 10(3), 289–321.
- Ullman, S.** (1979). *The Interpretation of Visual Motion*. MIT Press.

- Urmson, C.** and Whittaker, W. (2008). Self-driving cars and the Urban Challenge. *IEEE Intelligent Systems*, 23(2), 66–68.
- Valiant, L.** (1984). A theory of the learnable. *CACM*, 27, 1134–1142.
- van Beek, P.** (2006). Backtracking search algorithms. In Rossi, F., van Beek, P., and Walsh, T. (Eds.), *Handbook of Constraint Programming*. Elsevier.
- van Beek, P.** and Chen, X. (1999). CPlan: A constraint programming approach to planning. In *AAAI-99*, pp. 585–590.
- van Beek, P.** and Manchak, D. (1996). The design and experimental analysis of algorithms for temporal reasoning. *JAIR*, 4, 1–18.
- van Bentham, J.** and ter Meulen, A. (1997). *Handbook of Logic and Language*. MIT Press.
- Van Emden, M. H.** and Kowalski, R. (1976). The semantics of predicate logic as a programming language. *JACM*, 23(4), 733–742.
- van Harmelen, F.** and Bundy, A. (1988). Explanation-based generalisation = partial evaluation. *AIJ*, 36(3), 401–412.
- van Harmelen, F.**, Lifschitz, V., and Porter, B. (2007). *The Handbook of Knowledge Representation*. Elsevier.
- van Heijenoort, J.** (Ed.). (1967). *From Frege to Gödel: A Source Book in Mathematical Logic, 1879–1931*. Harvard University Press.
- Van Hentenryck, P.**, Saraswat, V., and Deville, Y. (1998). Design, implementation, and evaluation of the constraint language cc(FD). *J. Logic Programming*, 37(1–3), 139–164.
- van Hoeve, W.-J.** (2001). The alldifferent constraint: a survey. In *6th Annual Workshop of the ERCIM Working Group on Constraints*.
- van Hoeve, W.-J.** and Katriel, I. (2006). Global constraints. In Rossi, F., van Beek, P., and Walsh, T. (Eds.), *Handbook of Constraint Processing*, pp. 169–208. Elsevier.
- van Lambalgen, M.** and Hamm, F. (2005). *The Proper Treatment of Events*. Wiley-Blackwell.
- van Nunen, J. A. E. E.** (1976). A set of successive approximation methods for discounted Markovian decision problems. *Zeitschrift für Operations Research, Serie A*, 20(5), 203–208.
- Van Roy, B.** (1998). *Learning and value function approximation in complex decision processes*. Ph.D. thesis, Laboratory for Information and Decision Systems, MIT.
- Van Roy, P. L.** (1990). Can logic programming execute as fast as imperative programming? Report UCB/CSD 90/600, Computer Science Division, University of California, Berkeley, California.
- Vapnik, V. N.** (1998). *Statistical Learning Theory*. Wiley.
- Vapnik, V. N.** and Chervonenkis, A. Y. (1971). On the uniform convergence of relative frequencies of events to their probabilities. *Theory of Probability and Its Applications*, 16, 264–280.
- Varian, H. R.** (1995). Economic mechanism design for computerized agents. In *USENIX Workshop on Electronic Commerce*, pp. 13–21.
- Vauquois, B.** (1968). A survey of formal grammars and algorithms for recognition and transformation in mechanical translation. In *Proc. IFIP Congress*, pp. 1114–1122.
- Veloso, M.** and Carbonell, J. G. (1993). Derivational analogy in PRODIGY: Automating case acquisition, storage, and utilization. *Machine Learning*, 10, 249–278.
- Vere, S. A.** (1983). Planning in time: Windows and durations for activities and goals. *PAMI*, 5, 246–267.
- Verma, V.**, Gordon, G., Simmons, R., and Thrun, S. (2004). Particle filters for rover fault diagnosis. *IEEE Robotics and Automation Magazine*, June.
- Vinge, V.** (1993). The coming technological singularity: How to survive in the post-human era. In *VISION-21 Symposium*. NASA Lewis Research Center and the Ohio Aerospace Institute.
- Viola, P.** and Jones, M. (2002a). Fast and robust classification using asymmetric adaboost and a detector cascade. In *NIPS 14*.
- Viola, P.** and Jones, M. (2002b). Robust real-time object detection. *ICCV*.
- Visser, U.** and Burkhard, H.-D. (2007). RoboCup 2006: achievements and goals for the future. *AIMag*, 28(2), 115–130.
- Visser, U.**, Ribeiro, F., Ohashi, T., and Dellaert, F. (Eds.). (2008). *RoboCup 2007: Robot Soccer World Cup XI*. Springer.
- Viterbi, A. J.** (1967). Error bounds for convolutional codes and an asymptotically optimum decoding algorithm. *IEEE Transactions on Information Theory*, 13(2), 260–269.
- Vlassis, N.** (2008). *A Concise Introduction to Multi-agent Systems and Distributed Artificial Intelligence*. Morgan and Claypool.
- von Mises, R.** (1928). *Wahrscheinlichkeit, Statistik und Wahrheit*. J. Springer.
- von Neumann, J.** (1928). Zur Theorie der Gesellschaftsspiele. *Mathematische Annalen*, 100(295–320).
- von Neumann, J.** and Morgenstern, O. (1944). *Theory of Games and Economic Behavior* (first edition). Princeton University Press.
- von Winterfeldt, D.** and Edwards, W. (1986). *Decision Analysis and Behavioral Research*. Cambridge University Press.
- Vossen, T.**, Ball, M., Lotem, A., and Nau, D. S. (2001). Applying integer programming to AI planning. *Knowledge Engineering Review*, 16, 85–100.
- Wainwright, M. J.** and Jordan, M. I. (2008). Graphical models, exponential families, and variational inference. *Machine Learning*, 1(1–2), 1–305.
- Waldinger, R.** (1975). Achieving several goals simultaneously. In Elcock, E. W. and Michie, D. (Eds.), *Machine Intelligence 8*, pp. 94–138. Ellis Horwood.
- Wallace, A. R.** (1858). On the tendency of varieties to depart indefinitely from the original type. *Proc. Linnean Society of London*, 3, 53–62.
- Waltz, D.** (1975). Understanding line drawings of scenes with shadows. In Winston, P. H. (Ed.), *The Psychology of Computer Vision*. McGraw-Hill.
- Wang, Y.** and Gelly, S. (2007). Modifications of UCT and sequence-like simulations for Monte-Carlo Go. In *IEEE Symposium on Computational Intelligence and Games*, pp. 175–182.
- Wanner, E.** (1974). *On remembering, forgetting and understanding sentences*. Mouton.
- Warren, D. H. D.** (1974). WARPLAN: A System for Generating Plans. Department of Computational Logic Memo 76, University of Edinburgh.
- Warren, D. H. D.** (1983). An abstract Prolog instruction set. Technical note 309, SRI International.
- Warren, D. H. D.**, Pereira, L. M., and Pereira, F. (1977). PROLOG: The language and its implementation compared with LISP. *SIGPLAN Notices*, 12(8), 109–115.
- Wasserman, L.** (2004). *All of Statistics*. Springer.
- Watkins, C. J.** (1989). *Models of Delayed Reinforcement Learning*. Ph.D. thesis, Psychology Department, Cambridge University.
- Watson, J. D.** and Crick, F. H. C. (1953). A structure for deoxyribose nucleic acid. *Nature*, 171, 737.
- Waugh, K.**, Schnizlein, D., Bowling, M., and Szafron, D. (2009). Abstraction pathologies in extensive games. In *AAMAS-09*.
- Weaver, W.** (1949). Translation. In Locke, W. N. and Booth, D. (Eds.), *Machine translation of languages: fourteen essays*, pp. 15–23. Wiley.
- Webber, B. L.** and Nilsson, N. J. (Eds.). (1981). *Readings in Artificial Intelligence*. Morgan Kaufmann.
- Weibull, J.** (1995). *Evolutionary Game Theory*. MIT Press.
- Weidenbach, C.** (2001). SPASS: Combining superposition, sorts and splitting. In Robinson, A. and Voronkov, A. (Eds.), *Handbook of Automated Reasoning*. MIT Press.
- Weiss, G.** (2000a). *Multiagent systems*. MIT Press.
- Weiss, Y.** (2000b). Correctness of local probability propagation in graphical models with loops. *Neural Computation*, 12(1), 1–41.
- Weiss, Y.** and Freeman, W. (2001). Correctness of belief propagation in Gaussian graphical models of arbitrary topology. *Neural Computation*, 13(10), 2173–2200.
- Weizenbaum, J.** (1976). *Computer Power and Human Reason*. W. H. Freeman.
- Weld, D. S.** (1994). An introduction to least commitment planning. *AIMag*, 15(4), 27–61.
- Weld, D. S.** (1999). Recent advances in AI planning. *AIMag*, 20(2), 93–122.
- Weld, D. S.**, Anderson, C. R., and Smith, D. E. (1998). Extending graphplan to handle uncertainty and sensing actions. In *AAAI-98*, pp. 897–904.
- Weld, D. S.** and de Kleer, J. (1990). *Readings in Qualitative Reasoning about Physical Systems*. Morgan Kaufmann.
- Weld, D. S.** and Etzioni, O. (1994). The first law of robotics: A call to arms. In *AAAI-94*.
- Wellman, M. P.** (1985). Reasoning about preference models. Technical report MIT/LCS/TR-340, Laboratory for Computer Science, MIT.
- Wellman, M. P.** (1988). *Formulation of Tradeoffs in Planning under Uncertainty*. Ph.D. thesis, Massachusetts Institute of Technology.
- Wellman, M. P.** (1990a). Fundamental concepts of qualitative probabilistic networks. *AIJ*, 44(3), 257–303.
- Wellman, M. P.** (1990b). The STRIPS assumption for planning under uncertainty. In *AAAI-90*, pp. 198–203.
- Wellman, M. P.** (1995). The economic approach to artificial intelligence. *ACM Computing Surveys*, 27(3), 360–362.
- Wellman, M. P.**, Breeze, J. S., and Goldman, R. (1992). From knowledge bases to decision models. *Knowledge Engineering Review*, 7(1), 35–53.

- Wellman, M. P.** and Doyle, J. (1992). Modular utility representation for decision-theoretic planning. In *ICAPS-92*, pp. 236–242.
- Wellman, M. P.**, Wurman, P., O'Malley, K., Bangerter, R., Lin, S., Reeves, D., and Walsh, W. (2001). A trading agent competition. *IEEE Internet Computing*.
- Wells, H. G.** (1898). *The War of the Worlds*. William Heinemann.
- Werbos, P.** (1974). *Beyond Regression: New Tools for Prediction and Analysis in the Behavioral Sciences*. Ph.D. thesis, Harvard University.
- Werbos, P.** (1977). Advanced forecasting methods for global crisis warning and models of intelligence. *General Systems Yearbook*, 22, 25–38.
- Wesley, M. A.** and Lozano-Perez, T. (1979). An algorithm for planning collision-free paths among polyhedral objects. *CACM*, 22(10), 560–570.
- Wexler, Y.** and Meek, C. (2009). MAS: A multiplicative approximation scheme for probabilistic inference. In *NIPS 21*.
- Whitehead, A. N.** (1911). *An Introduction to Mathematics*. Williams and Northgate.
- Whitehead, A. N.** and Russell, B. (1910). *Principia Mathematica*. Cambridge University Press.
- Whorf, B.** (1956). *Language, Thought, and Reality*. MIT Press.
- Widrow, B.** (1962). Generalization and information storage in networks of adaline “neurons”. In *Self-Organizing Systems 1962*, pp. 435–461.
- Widrow, B.** and Hoff, M. E. (1960). Adaptive switching circuits. In *1960 IRE WESCON Convention Record*, pp. 96–104.
- Wiedijk, F.** (2003). Comparing mathematical provers. In *Mathematical Knowledge Management*, pp. 188–202.
- Wiegley, J.**, Goldberg, K., Peshkin, M., and Brokowski, M. (1996). A complete algorithm for designing passive fences to orient parts. In *ICRA-96*.
- Wiener, N.** (1942). The extrapolation, interpolation, and smoothing of stationary time series. Osrd 370, Report to the Services 19, Research Project DIC-6037, MIT.
- Wiener, N.** (1948). *Cybernetics*. Wiley.
- Wilensky, R.** (1978). *Understanding goal-based stories*. Ph.D. thesis, Yale University.
- Wilensky, R.** (1983). *Planning and Understanding*. Addison-Wesley.
- Wilkins, D. E.** (1980). Using patterns and plans in chess. *AIJ*, 14(2), 165–203.
- Wilkins, D. E.** (1988). *Practical Planning: Extending the AI Planning Paradigm*. Morgan Kaufmann.
- Wilkins, D. E.** (1990). Can AI planners solve practical problems? *Computational Intelligence*, 6(4), 232–246.
- Williams, B.**, Ingham, M., Chung, S., and Elliott, P. (2003). Model-based programming of intelligent embedded systems and robotic space explorers. In *Proc. IEEE: Special Issue on Modeling and Design of Embedded Software*, pp. 212–237.
- Williams, R. J.** (1992). Simple statistical gradient-following algorithms for connectionist reinforcement learning. *Machine Learning*, 8, 229–256.
- Williams, R. J.** and Baird, L. C. I. (1993). Tight performance bounds on greedy policies based on imperfect value functions. Tech. rep. NU-CCS-93-14, College of Computer Science, Northeastern University.
- Wilson, R. A.** and Keil, F. C. (Eds.). (1999). *The MIT Encyclopedia of the Cognitive Sciences*. MIT Press.
- Wilson, R.** (2004). *Four Colors Suffice*. Princeton University Press.
- Winograd, S.** and Cowan, J. D. (1963). *Reliable Computation in the Presence of Noise*. MIT Press.
- Winograd, T.** (1972). Understanding natural language. *Cognitive Psychology*, 3(1), 1–191.
- Winston, P. H.** (1970). Learning structural descriptions from examples. Technical report MAC-TR-76, Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology.
- Winston, P. H.** (1992). *Artificial Intelligence* (Third edition). Addison-Wesley.
- Wintermute, S.**, Xu, J., and Laird, J. (2007). SORTS: A human-level approach to real-time strategy AI. In *Proc. Third Artificial Intelligence and Interactive Digital Entertainment Conference (AIIDE-07)*.
- Witten, I. H.** and Bell, T. C. (1991). The zero-frequency problem: Estimating the probabilities of novel events in adaptive text compression. *IEEE Transactions on Information Theory*, 37(4), 1085–1094.
- Witten, I. H.** and Frank, E. (2005). *Data Mining: Practical Machine Learning Tools and Techniques* (2nd edition). Morgan Kaufmann.
- Witten, I. H.**, Moffat, A., and Bell, T. C. (1999). *Managing Gigabytes: Compressing and Indexing Documents and Images* (second edition). Morgan Kaufmann.
- Wittgenstein, L.** (1922). *Tractatus Logico-Philosophicus* (second edition). Routledge and Kegan Paul. Reprinted 1971, edited by D. F. Pears and B. F. McGuinness. This edition of the English translation also contains Wittgenstein's original German text on facing pages, as well as Bertrand Russell's introduction to the 1922 edition.
- Wittgenstein, L.** (1953). *Philosophical Investigations*. Macmillan.
- Wojciechowski, W. S.** and Wojcik, A. S. (1983). Automated design of multiple-valued logic circuits by automated theorem proving techniques. *IEEE Transactions on Computers*, C-32(9), 785–798.
- Wolfe, J.** and Russell, S. J. (2007). Exploiting belief state structure in graph search. In *ICAPS Workshop on Planning in Games*.
- Woods, W. A.** (1973). Progress in natural language understanding: An application to lunar geology. In *AFIPS Conference Proceedings*, Vol. 42, pp. 441–450.
- Woods, W. A.** (1975). What's in a link? Foundations for semantic networks. In Bobrow, D. G. and Collins, A. M. (Eds.), *Representation and Understanding: Studies in Cognitive Science*, pp. 35–82. Academic Press.
- Wooldridge, M.** (2002). *An Introduction to Multi-Agent Systems*. Wiley.
- Wooldridge, M.** and Rao, A. (Eds.). (1999). *Foundations of rational agency*. Kluwer.
- Wos, L.**, Carson, D., and Robinson, G. (1964). The unit preference strategy in theorem proving. In *Proc. Fall Joint Computer Conference*, pp. 615–621.
- Wos, L.**, Carson, D., and Robinson, G. (1965). Efficiency and completeness of the set-of-support strategy in theorem proving. *JACM*, 12, 536–541.
- Wos, L.**, Overbeek, R., Lusk, E., and Boyle, J. (1992). *Automated Reasoning: Introduction and Applications* (second edition). McGraw-Hill.
- Wos, L.** and Robinson, G. (1968). Paramodulation and set of support. In *Proc. IRIA Symposium on Automatic Demonstration*, pp. 276–310.
- Wos, L.**, Robinson, G., Carson, D., and Shalla, L. (1967). The concept of demodulation in theorem proving. *JACM*, 14, 698–704.
- Wos, L.** and Winker, S. (1983). Open questions solved with the assistance of AURA. In *Automated Theorem Proving: After 25 Years: Proc. Special Session of the 89th Annual Meeting of the American Mathematical Society*, pp. 71–88. American Mathematical Society.
- Wos, L.** and Pieper, G. (2003). *Automated Reasoning and the Discovery of Missing and Elegant Proofs*. Rinton Press.
- Wray, R. E.** and Jones, R. M. (2005). An introduction to Soar as an agent architecture. In Sun, R. (Ed.), *Cognition and Multi-agent Interaction: From Cognitive Modeling to Social Simulation*, pp. 53–78. Cambridge University Press.
- Wright, S.** (1921). Correlation and causation. *J. Agricultural Research*, 20, 557–585.
- Wright, S.** (1931). Evolution in Mendelian populations. *Genetics*, 16, 97–159.
- Wright, S.** (1934). The method of path coefficients. *Annals of Mathematical Statistics*, 5, 161–215.
- Wu, D.** (1993). Estimating probability distributions over hypotheses with variable unification. In *IJCAI-93*, pp. 790–795.
- Wu, F.** and Weld, D. S. (2008). Automatically refining the wikipedia infobox ontology. In *17th World Wide Web Conference (WWW2008)*.
- Yang, F.**, Culberson, J., Holte, R., Zahavi, U., and Felner, A. (2008). A general theory of additive state space abstractions. *JAIR*, 32, 631–662.
- Yang, Q.** (1990). Formalizing planning knowledge for hierarchical planning. *Computational Intelligence*, 6, 12–24.
- Yarowsky, D.** (1995). Unsupervised word sense disambiguation rivaling supervised methods. In *ACL-95*, pp. 189–196.
- Yedidia, J.**, Freeman, W., and Weiss, Y. (2005). Constructing free-energy approximations and generalized belief propagation algorithms. *IEEE Transactions on Information Theory*, 51(7), 2282–2312.
- Yip, K. M.-K.** (1991). *KAM: A System for Intelligently Guiding Numerical Experimentation by Computer*. MIT Press.
- Yngve, V.** (1955). A model and an hypothesis for language structure. In Locke, W. N. and Booth, A. D. (Eds.), *Machine Translation of Languages*, pp. 208–226. MIT Press.
- Yob, G.** (1975). Hunt the wumpus! *Creative Computing, Sep/Oct*.
- Yoshikawa, T.** (1990). *Foundations of Robotics: Analysis and Control*. MIT Press.
- Young, H. P.** (2004). *Strategic Learning and Its Limits*. Oxford University Press.
- Younger, D. H.** (1967). Recognition and parsing of context-free languages in time  $n^3$ . *Information and Control*, 10(2), 189–208.

- Yudkowsky, E.** (2008). Artificial intelligence as a positive and negative factor in global risk. In Bostrom, N. and Cirkovic, M. (Eds.), *Global Catastrophic Risk*. Oxford University Press.
- Zadeh, L. A.** (1965). Fuzzy sets. *Information and Control*, 8, 338–353.
- Zadeh, L. A.** (1978). Fuzzy sets as a basis for a theory of possibility. *Fuzzy Sets and Systems*, 1, 3–28.
- Zaritskii, V. S., Svetnik, V. B., and Shimelevich, L. I.** (1975). Monte-Carlo technique in problems of optimal information processing. *Automation and Remote Control*, 36, 2015–22.
- Zelle, J. and Mooney, R.** (1996). Learning to parse database queries using inductive logic programming. In *AAAI-96*, pp. 1050–1055.
- Zermelo, E.** (1913). Über Eine Anwendung der Mengenlehre auf die Theorie des Schachspiels. In *Proc. Fifth International Congress of Mathematicians*, Vol. 2, pp. 501–504.
- Zermelo, E.** (1976). An application of set theory to the theory of chess-playing. *Firbush News*, 6, 37–42. English translation of (Zermelo 1913).
- Zettlemoyer, L. S. and Collins, M.** (2005). Learning to map sentences to logical form: Structured classification with probabilistic categorial grammars. In *UAI-05*.
- Zhang, H. and Stickel, M. E.** (1996). An efficient algorithm for unit-propagation. In *Proc. Fourth International Symposium on Artificial Intelligence and Mathematics*.
- Zhang, L., Pavlovic, V., Cantor, C. R., and Kasif, S.** (2003). Human-mouse gene identification by comparative evidence integration and evolutionary analysis. *Genome Research*, pp. 1–13.
- Zhang, N. L. and Poole, D.** (1994). A simple approach to Bayesian network computations. In *Proc. 10th Canadian Conference on Artificial Intelligence*, pp. 171–178.
- Zhang, N. L., Qi, R., and Poole, D.** (1994). A computational theory of decision networks. *IJAR*, 11, 83–158.
- Zhou, R. and Hansen, E.** (2002). Memory-bounded A\* graph search. In *Proc. 15th International Flairs Conference*.
- Zhou, R. and Hansen, E.** (2006). Breadth-first heuristic search. *AIJ*, 170(4–5), 385–408.
- Zhu, D. J. and Latombe, J.-C.** (1991). New heuristic algorithms for efficient hierarchical path planning. *IEEE Transactions on Robotics and Automation*, 7(1), 9–20.
- Zimmermann, H.-J.** (Ed.). (1999). *Practical applications of fuzzy technologies*. Kluwer.
- Zimmermann, H.-J.** (2001). *Fuzzy Set Theory—And Its Applications* (Fourth edition). Kluwer.
- Zinkevich, M., Johanson, M., Bowling, M., and Piccione, C.** (2008). Regret minimization in games with incomplete information. In *NIPS 20*, pp. 1729–1736.
- Zollmann, A., Venugopal, A., Och, F. J., and Ponte, J.** (2008). A systematic comparison of phrase-based, hierarchical and syntax-augmented statistical MT. In *COLING-08*.
- Zweig, G. and Russell, S. J.** (1998). Speech recognition with dynamic Bayesian networks. In *AAAI-98*, pp. 173–180.