

References

- Amarel, S. (1962) On the automatic formation of a computer program which represents a theory. Self-Organizing Systems (eds. M.C. Yovits, G.T. Jacobi and G.D. Goldstein) Washington: Spartan Books, pp. 107-176.
- Amarel, S. (1971) Representations and modeling in problems of program formation. Machine Intelligence 6 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 411-466.
- Andrews, P.B. (1968) Resolution with merging. J.A.C.M., Vol. 15, No. 3, 367-381.
- Barrow, H.G. and Salter, S.H. (1969) Design of low-cost equipment for cognitive robot research. Machine Intelligence 5 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 555-566.
- Barrow, H.G. and Popplestone, R.J. (1971) Relational descriptions in picture-processing. Machine Intelligence 6 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 377-396.
- Becker, J.D. (1969) The modelling of simple analogic and inductive processes in a semantic memory system. Proceedings of the International Joint Conference in Artificial Intelligence, pp. 655-668.

Becker, J.D. (1970) An information-processing model of intermediate-level cognition. Stanford A.I. Memo. No. 119. Computer Science Department, Stanford University.

Black, M. (1966) Notes on the "Paradoxes of Confirmation". Aspects of Inductive Logic (eds. J. Hintikka and P. Suppes) Amsterdam: North Holland.

Bruner, J.S., Goodnow, J.J. and Austin, G.A. (1956) A study of thinking. New York: Wiley.

Buchanan, B.G. (1966) Logics of scientific discovery. Stanford A.I. Memo. No. 47. Computer Science Department, Stanford University.

Buchanan, B.G., Sutherland, G.L. and Feigenbaum, E.A. (1969) Heuristic DENDRAL: A program for generating explanatory hypotheses in organic chemistry. Machine Intelligence 4 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 209-254.

Buchanan, B.G., Sutherland, G.L. and Feigenbaum, E.A. (1970) Rediscovering some problems of artificial intelligence in the context of organic chemistry. Machine Intelligence 5 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 253-280.

Bunge, M. (1961) The weight of simplicity in the construction and assaying of scientific hypotheses. Philosophy of Science, Vol. 28, 120-149.

- Burstall, R.M., Collins, J.S. and Popplestone, R.J. (1971) Programming
in POP-2. Edinburgh: Edinburgh University Press.
- Carnap, R. (1950) The logical foundations of probability. Chicago:
University of Chicago Press. (Second edition, 1963.)
- Carnap, R. (1952) The Continuum of Inductive Methods. Chicago.
- Carnap, R. (1967) The logical structure of the world. London:
Routledge and Kegan Paul.
- Chang, C.L. (1970) Renameable paramodulation for automatic theorem
proving with equality. Artificial Intelligence, Vol. 1, No. 4,
247-256.
- Chomsky, N. and Miller, G. (1957) Pattern Conception Report No.
AFCRC-TN-57-57.
- Eberle, R., Kaplan, D. and Montague, R. (1961) Hempel and Oppenheim
on explanation. Philosophy of Science, Vol. 28, 418-428.
- Evans, T.G. (1968) A program for the solution of geometric-analogy
intelligence test questions. Semantic Information Processing
(ed. M. Minsky) Cambridge, Massachusetts: M.I.T. Press.

Feigenbaum, E.A., Buchanan, B.G. and Lederberg, J. (1971) On generality and problem solving: A case study using the DENDRAL program. Machine Intelligence 6 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 165-190.

Feldman, J.D. (1967) First thoughts on grammatical inference. Stanford A.I. Memo. No. 55. Computer Science Department, Stanford University.

Feldman, J. (1970) Some decidability results on grammatical inference and complexity. Stanford A.I. Memo. No. 93.1. Computer Science Department, Stanford University.

Feldman, J.D. and Biermann, A.W. (1970) On the synthesis of finite-state acceptors. Stanford A.I. Memo. No. 114. Computer Science Department, Stanford University.

Feldman, J.A., Gips, J., Horning, J.J. and Reder, S. (1969) Grammatical complexity and inference. Stanford A.I. Memo. No. 89. Computer Science Department, Stanford University.

Gold, M. (1967) Language identification in the limit. Information and Control, Vol. 10, 447-474.

Goodman, N. (1959) Recent developments in the theory of simplicity. Philosophy and Phenomenological Research, Vol. 19, 429-446.

Goodman, N. (1961) Safety, strength, simplicity. Philosophy of Science, Vol. 28, 150-151.

Goodman, N. (1965) Fact, fiction and forecast. Indianapolis: Bobbs-Merrill.

Hayes, P.J. (1971) A logic of actions. Machine Intelligence 6 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 495-520.

Hempel, C.G. (1945) Studies in the logic of confirmation. Mind, Vol. 54, 1-26, 91-121.

Hempel, C.G. (1962) Deductive-nomological versus statistical explanation. Minnesota Studies in the Philosophy of Science, Vol. 3 (eds. H. Feigl, and G. Maxwell) Minneapolis: University of Minnesota Press, pp. 98-169.

Hempel, C.G. and Oppenheim, P. (1948) Studies in the logic of explanation. Philosophy of Science, Vol. 15, 135-175.

Hewitt, C. (1968) Functional abstraction in LISP and PLANNER. Artificial Intelligence Memo. No. 151. M.I.T. (Project MAC).

Hilpinen, R. (1968) Rules of acceptance and inductive logic. Acta Philosophica Fennica, Vol. 22. Amsterdam: North Holland.

Hintikka, J. (1953) Distributive normal forms in the calculus of predicates. Acta Philosophica Fennica, Vol. 6. Amsterdam: North Holland.

- Hintikka, J. (1965a) Towards a theory of inductive generalization.
Proc. 1964 Intern. Congress for Logic, Methodology, and Philosophy
of Science (ed. Y. Bar-Hillel) Amsterdam: North Holland, pp. 274-
288.
- Hintikka, J. (1965b) Distributive normal forms in first-order logic.
Formal systems and recursive functions. Proceedings of the 1963
Logic Colloquium in Oxford (ed. J.N. Crossley) Amsterdam: North
Holland.
- Hintikka, J. (1966) A two-dimensional continuum of inductive methods.
Aspects of Inductive Logic (eds. J. Hintikka and P. Suppes)
Amsterdam: North Holland.
- Hintikka, J. and Hilpinen, R. (1966) Knowledge, acceptance and inductive
logic. Aspects of Inductive Logic (eds. J. Hintikka and P. Suppes)
Amsterdam: North Holland, pp. 1-20.
- Horning, J.J. (1969) A study of grammatical inference. Stanford A.I.
Memo. No. 98. Computer Science Department, Stanford University.
- Hunt, E.B., Marin, J. and Stone, P.J. (1966) Experiments in induction.
New York and London: Academic Press.
- Kemeny, J.G. (1953) A logical measure function. Journal of Symbolic
Logic, Vol. 18, 289-308.
- Kemeny, J.G. (1953) The use of simplicity in induction. Phil. Rev.,
62, 391-408.

- Kling, R.E. (1971) A paradigm for reasoning by analogy. Artificial Intelligence Group Technical Note 47R. Stanford Research Institute, Menlo Park, California.
- Kowalski, R. (1969) Search strategies for theorem-proving. Machine Intelligence 5 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 181-201.
- Kowalski, R. (1970) Studies in the completeness and efficiency of theorem-proving by resolution. Ph.D.Thesis. Metamathematics Unit, University of Edinburgh.
- Kreisel, G. (1967) Informal rigour and completeness proofs. Problems in the philosophy of mathematics (ed. I. Lakatos) Amsterdam: North Holland, pp. 138-157. Reprinted with a postscript in The Philosophy of Mathematics (ed. J. Hintikka) Oxford: Oxford University Press, (1969), pp. 78-94.
- Kreisel, G. (1970) Hilbert's Programme and the search for automatic proof procedures. Lecture notes in mathematics (eds. A. Dold and B. Eckmann) Heidelberg and Zurich: Springer-Verlag, pp. 128-146.
- Kyburg, H.E. (1961) Probability, rationality and a rule of detachment. Middleton, Conn.: Wesleyan University Press.
- Kyburg, H.E. (1964) Recent work in inductive logic. American Philosophical Quarterly, 1, 249-287.

Lee, C. (1967) A completeness theorem and a computer program for finding theorems derivable from given axioms. Ph.D. Thesis. University of California, Berkeley.

Meltzer, B. (1970) Power amplification for theorem provers. Machine Intelligence 5 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 165-179.

Minsky, M.M. and Papert, S.A. (1969) Perceptrons: An Introduction to Computational Geometry. Cambridge, Massachusetts: M.I.T. Press.

Nilsson, N.J. (1965) Learning Machines: Foundations of Trainable Pattern Classifying Systems. New York: McGraw-Hill.

Perryman, G. (1970) Discovering the structure of an automaton from partial information. M.Sc. Thesis. Department of Machine Intelligence and Perception, University of Edinburgh.

Plotkin, G.D. (1970) A note on inductive generalization. Machine Intelligence 5 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 153-163.

Plotkin, G.D. (1971) A further note on inductive generalization.

Machine Intelligence 6 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press, pp. 101-124.

Pólya, G. (1954) Mathematics and plausible reasoning. Volume 1.

Induction and Analogy in Mathematics. Princeton: Princeton University Press.

Pólya, G. (1957) How To Solve It. New York: Doubleday.

Pólya, G. (1968) Mathematics and plausible reasoning. Volume 2.

Patterns of Plausible Inference. Princeton: Princeton University Press.

Popper, K.R. (1959) The Logic of Scientific Discovery. London:
Hutchinson.

Popplestone, R.J. (1970) An experiment in automatic induction.

Machine Intelligence 5 (eds. B. Meltzer and D. Michie) Edinburgh:
Edinburgh University Press, pp. 203-215.

Putnam, H. (1956) A definition of degree of confirmation for very rich languages. Philosophy of Science, Vol. 23, 58-62.

Putnam, H. (1963) Degree of confirmation and inductive logic. The Philosophy of Rudolf Carnap (ed. P.A. Schilpp) La Salle, Illinois:
Open Court Publishing Co., pp. 761-783.

Putnam, H. (1967) Probability and confirmation. Philosophy of Science Today (ed. S. Morgenbesser) New York: Basic Books.

Quine, W. (1955) A way to simplify truth functions. Amer. Math. Month.,
62, 627-631.

Reynolds, J.C. (1970) Transformational systems and the algebraic structure of atomic formulae. Machine Intelligence 5 (eds. B. Meltzer and D. Michie) Edinburgh: Edinburgh University Press,
pp. 135-152.

Robinson, J.A. (1965) A machine-oriented logic based on the resolution principle. J. Ass. Comput. Mach., 12, 23-41.

Schilpp, P.A. (ed.) (1963) The Philosophy of Rudolf Carnap. La Salle.

Schoenfield, J.R. (1967) Mathematical Logic. Massachusetts: Addison-Wesley.

Shamir, E. (1962) A remark on discovery algorithms for grammars.
Information and Control, Vol. 3, 246-251.

Solomonoff, P.J. (1964) A formal theory of inductive inference.
Information and Control, Vol. 7, 1-22, 224-254.

Tredwill, R.F. (1965) The problem of counterfactuals. Philosophy of Science, Vol. 32, 310-323.

Winston, P.H. (1970) Learning structural descriptions from examples.
Report MAC TR-76 (Thesis). Cambridge, Massachusetts, Project MAC,
M.I.T.