

BIBLIOGRAPHY

- ANGLUIN, D., & C.H. SMITH (1983) 'Inductive inference: theory and methods', *Computing Surveys* 15 (3): 238–269.
- BAIN, M., & S. MUGGLETON (1991) 'Non-monotonic learning'. In *Machine Intelligence 12*, J.E. Hayes, D. Michie & E. Tyugu (eds.), Oxford University Press: 105–119.
Also in (Muggleton, 1992a): 145–161.
- BEERI, C., & M.Y. VARDI (1981) 'The implication problem for data dependencies'. In *Proc. 8th Int. Conf. on Automata, Languages, and Programming*, Lecture Notes in Computer Science 115, Springer-Verlag, New York: 73–85.
- CARNAP, R. (1950) *Logical Foundations of Probability*, Routledge & Kegan Paul, London.
- CLARK, K.L. (1978) 'Negation as failure'. In *Logic and Databases*, H. Gallaire & J. Minker (eds.), Plenum Press: 293–322.
- CONSOLE, L., & L. SAITTA (1994) 'Generalization and explanation revisited in Machine Learning', manuscript.
- DE RAEDT, L., & M. BRUYNOOGHE (1992) 'Belief updating from integrity constraints and queries', *Artificial Intelligence* 53: 291–307.
- (1993) 'A theory of clausal discovery'. In *Proc. 13th Int. Conf. on Artificial Intelligence IJCAI'93*, Morgan Kaufmann, San Mateo: 1058–1063.
- DE TROYER, O. (1993) *On data schema transformation*, PhD Thesis, Tilburg University.
- DIETTERICH, T.G., B. LONDON, K. CLARKSON & G. DROMEY (1982) 'Learning and inductive inference'. In P. Cohen & E.A. Feigenbaum (eds.), *The Handbook of Artificial Intelligence*, Vol. III, William Kaufmann.
- DIX, J. (1994a) 'Semantics of logic programs: their intuitions and formal properties. An overview'. In *Logic, Action and Information*, A. Fuhrmann & H. Rott (eds.), de Gruyter, Berlin: 227–311.
- (1994b) 'A classification theory of semantics of normal logic programs: I. strong properties; II. weak properties', *Fundamenta Informaticae*.
- ETCHEMENDY, J. (1990) *The Concept of Logical Consequence*, Harvard University Press.
- FLACH, P.A. (1990) 'Inductive characterisation of database relations'. In *Proc. Fifth Int. Symp. on Methodologies for Intelligent Systems ISMIS'90*, Z.W. Ras, M. Zemankova & M.L. Emrich (eds.), North-Holland, Amsterdam: 371–378.
Full version appeared as ITK Research Report 23, Inst. for Language Technology & Artificial Intelligence, Tilburg University.
- (1991) *The role of explanations in inductive learning*. ITK Research Report 30, Inst. for Language Technology & Artificial Intelligence, Tilburg University.
- (1992a) 'A framework for Inductive Logic Programming'. In (Muggleton, 1992a): 193–211.
- (1992b) 'Generality revisited'. In *Proc. ECAI '92 Workshop on Logical Approaches to Machine Learning*, Vienna.

Bibliography

- (1993) ‘Predicate invention in Inductive Data Engineering’. In *Proc. Eur. Conf. on Machine Learning ECML’93*, P.B. Brazdil (ed.), Lecture Notes in Artificial Intelligence 667, Springer-Verlag, Berlin: 83–94.
- (1994) *Simply Logical: intelligent reasoning by example*, John Wiley & Sons, Chichester.
- FLACH, P.A., & R.A. MEERSMAN, EDS. (1991) *Future Directions in Artificial Intelligence*, North-Holland, Amsterdam.
- FREGE, G. (1893) *Grundgesetze der Aritmetik, Begriffschriftlich Abgeleitet*, Jena. Reprinted by Olms, Hildesheim (1966).
- GABBAY, D.M. (1985) ‘Theoretical foundations for non-monotonic reasoning in expert systems’. In *Logics and Models of Concurrent Systems*, K.R. Apt (ed.), Springer Verlag, Berlin: 439–457.
- (1994) ‘Classical vs non-classical logics (the universality of classical logic)’. In *Handbook of Logic in Artificial Intelligence and Logic Programming, Volume 2: Deduction Methodologies*, D.M. Gabbay, C.J. Hogger & J.A. Robinson (eds.), Clarendon Press, Oxford: 359–495.
- GALLAIRE, H., J. MINKER & J.-M. NICOLAS (1984) ‘Logic and databases: a deductive approach’, *Computing Surveys* 16 (2): 153–185.
- GOODMAN, N. (1954) ‘The new riddle of induction’. In *Fact, Fiction, and Forecast*, Chapter VIII,3, Harvard University Press, Cambridge. Fourth edition, 1983.
- GOTTLOB, G. (1987) ‘Subsumption and implication’, *Information Processing Letters* 24: 109–111.
- HAACK, S. (1978) *Philosophy of Logics*, Cambridge University Press.
- HARSTSHORNE, C., P. WEISS & A. BURKS, EDS. (1931–58) *Collected Papers of Charles Sanders Peirce*, Harvard University, Cambridge.
- HELFT, N. (1989) ‘Induction as nonmonotonic inference’. In *Proc. First Int. Conf. on Knowledge Representation and Reasoning KR’89*, Morgan Kaufmann, San Mateo: 149–156.
- HEMPEL, C.G. (1943) ‘A purely syntactical definition of confirmation’, *J. Symbolic Logic* 6 (4) : 122–143.
- (1945) ‘Studies in the logic of confirmation’, *Mind* 54 (213): 1–26 (Part I); 54 (214): 97–121 (Part II).
- (1966) *Philosophy of Natural Science*, Prentice-Hall, Englewood Cliffs.
- HESSE, M. (1974) *The Structure of Scientific Inference*, MacMillan, London.
- HOGGER, C.J. (1990) *Essentials of Logic Programming*, Oxford University Press.
- IDESTAM-ALMQUIST, P. (1994) *Generalization of clauses*, PhD thesis, Stockholm University.
- JENNINGS, R.E., C.W. CHAN & M.J. DOWAD (1991) ‘Generalised inference and inferential modelling’. In *Proc. Int. Joint Conf. on Artificial Intelligence IJCAI’91*, Morgan Kaufmann: 1046–1051.
- KANTOLA, M., H. MANNILA, K.-J. RÄIHÄ & H. SIIRTOLA (1992) ‘Discovering functional and inclusion dependencies in relational databases’, *Int. J. Intelligent Systems* 7: 591–607.
- KEUZENKAMP, H.A. (1994) *Probability, Econometrics, and Truth*, PhD thesis, Tilburg University.

Bibliography

- KRAUS, S., D. LEHMANN & M. MAGIDOR (1990) 'Nonmonotonic reasoning, preferential models and cumulative logics', *Artificial Intelligence* 44: 167–207.
- LAVRA», N., & S. DÆEROSKI (1994) *Inductive Logic Programming: techniques and applications*, Ellis Horwood, Chichester.
- LENAT, D.B. (1980) 'AM: discovery in mathematics as heuristic search'. In *Knowledge-Based Systems in Artificial Intelligence*, R. Davis & D.B. Lenat (eds.), McGraw-Hill, New York: 3–228.
- LLOYD, J.W. (1987) *Foundations of Logic Programming*, second edition, Springer-Verlag, Berlin.
- MAIER, D. (1983) *The theory of relational databases*, Computer Science Press, Rockville.
- MANNILA, H., & K.-J. RÄIHÄ (1992) *The design of relational databases*, Addison-Wesley, Wokingham.
- MCCARTHY, J. (1980) 'Circumscription: a form of non-monotonic reasoning', *Artificial Intelligence* 13: 27–39.
- MICHALSKI, R.S. (1983) 'A theory and methodology of inductive learning'. In *Machine Learning: an Artificial Intelligence approach*, R.S. Michalski, J.G. Carbonell & T.M. Mitchell (eds.), Springer-Verlag, Berlin: 83–133.
- MILL, J.S. (1843) *A System of Logic*. Reprinted in *The Collected Works of John Stuart Mill*, J.M. Robson (ed.), Routledge & Kegan Paul, London.
- MINKER, J., ED. (1988) *Foundations of Deductive Databases and Logic Programming*, Morgan Kaufmann, Los Altos.
- MITCHELL, T.M. (1982) 'Generalization as search', *Artificial Intelligence* 18 (2): 203–226.
- MUGGLETON, S.H., ED. (1992a) *Inductive Logic Programming*, Academic Press.
- (1992b) 'Inverting implication'. In *Proc. ECAI 92 workshop on Logical approaches to Machine Learning*, Vienna.
- MUGGLETON, S.H., & W. BUNTINE (1988) 'Machine invention of first-order predicates by inverting resolution'. In *Proc. Fifth Int. Conf. on Machine Learning*, J. Laird (ed.), Morgan Kaufmann, San Mateo: 339–352. Also in (Muggleton, 1992a): 261–280.
- MUGGLETON, S.H., & C. FENG (1990) 'Efficient induction of logic programs'. In *Proc. First Conf. on Algorithmic Learning Theory*, Ohmsha, Tokyo.
Also in (Muggleton, 1992a): 281–298.
- NIBLETT, T. (1988) 'A study of generalisation in logic programs'. In *Proc. Eur. Working Sessions on Learning EWSL'88*, D. Sleeman (ed.), Pitman: 131–138.
- NIENHUYSEN-CHENG, S.H., & P.A. FLACH (1991) 'Consistent term mappings, term partitions, and inverse resolution'. In *Proc. Eur. Working Sessions on Learning EWSL'91*, Y. Kodratoff (ed.), Lecture Notes in Artificial Intelligence 482, Springer-Verlag, Berlin: 361–374.
- PAREDAENS, J., P. DE BRA, M. GYSSENS & D. VAN GUCHT (1989) *The structure of the relational database model*, Springer-Verlag, Berlin.
- PEARL, J. (1987) 'Bayesian Decision Methods'. In *Encyclopedia of Artificial Intelligence*, S. Shapiro (ed.), John Wiley & Sons, Chichester: 48–56.
- POPPER, K.R. (1963) *Conjectures and Refutations*, Routledge & Kegan Paul, London.
Fifth edition, 1974.
- PIATETSKY-SHAPIRO, G., & W.J. FRAWLEY, EDS. (1991) *Knowledge discovery in databases*, MIT Press.

Bibliography

- QUINLAN, J.R. (1990) 'Learning logical definitions from relations', *Machine Learning* 5 (3): 239–266.
- REITER, R. (1980) 'A logic of default reasoning', *Artificial Intelligence* 13: 81–132.
- (1984) 'Towards a logical reconstruction of relational database theory'. In *On conceptual modelling: perspectives from Artificial Intelligence, databases and programming languages*, M.L. Brodie, J. Mylopoulos & J.W. Schmidt (eds.), Springer-Verlag, Berlin: 191–233.
- SAVNIK, I., & P.A. FLACH (1993) 'Bottom-up induction of functional dependencies from relations'. In *Proc. AAAI '93 Workshop Knowledge Discovery in Databases*, G. Piatetsky-Shapiro (ed.): 174–185.
- SHAPIRO, E.Y. (1981) *Inductive inference of theories from facts*, Techn. rep. 192, Comp. Sc. Dep., Yale University.
- (1983) *Algorithmic program debugging*, MIT Press.
- SHOHAM, Y. (1987) 'A semantical approach to nonmonotonic logics'. In *Proc. Eleventh Int. Joint Conf. on Artificial Intelligence*, Morgan Kaufmann, Los Altos, CA: 1304–1310.
- TARSKI, A. (1936) 'Über den Begriff der logischen Folgerung', *Actes du Congrès Int. de Philosophie Scientifique* 7: 1–11. Translated into English as 'On the concept of logical consequence'. In *Logic, Semantics, Metamathematics*, A. Tarski (1956), Clarendon Press, Oxford: 409–420.
- THIJSSE, E.G.C. (1992) *Partial logic and knowledge representation*, PhD thesis, Tilburg University.
- TURNER, R. (1984) *Logics for Artificial Intelligence*, Ellis Horwood, Chichester.
- ZADROZNY, W. (1991) *On rules of abduction*, IBM Research Report, August 1991.