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Disciplina	006.3/1
Soggetti	Artificial intelligence Mathematics Computers Artificial Intelligence Mathematics, general Theory of Computation Computation by Abstract Devices
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Nota di contenuto	Discovery learning in intelligent tutoring systems -- From inductive inference to algorithmic learning theory -- A stochastic approach to genetic information processing -- On learning systolic languages -- A note on the query complexity of learning DFA -- Polynomial-time MAT learning of multilinear logic programs -- Iterative weighted least squares algorithms for neural networks classifiers -- Domains of attraction in autoassociative memory networks for character pattern recognition -- Regularization learning of neural networks for generalization -- Competitive learning by entropy minimization -- Inductive inference with bounded mind changes -- Efficient inductive inference of primitive Prologs from positive data -- Monotonic language learning -- Prudence in vacillatory language identification (Extended abstract) -- Implementation of heuristic problem solving process including analogical reasoning -- Planning with abstraction

based on partial predicate mappings -- Learning k-term monotone Boolean formulae -- Some improved sample complexity bounds in the probabilistic PAC learning model -- An application of Bernstein polynomials in PAC model -- On PAC learnability of functional dependencies -- Protein secondary structure prediction based on stochastic-rule learning -- Notes on the PAC learning of geometric concepts with additional information.

Sommario/riassunto

This volume contains the papers that were presented at the Third Workshop on Algorithmic Learning Theory, held in Tokyo in October 1992. In addition to 3 invited papers, the volume contains 19 papers accepted for presentation, selected from 29 submitted extended abstracts. The ALT workshops have been held annually since 1990 and are organized and sponsored by the Japanese Society for Artificial Intelligence. The main objective of these workshops is to provide an open forum for discussions and exchanges of ideas between researchers from various backgrounds in this emerging, interdisciplinary field of learning theory. The volume is organized into parts on learning via query, neural networks, inductive inference, analogical reasoning, and approximate learning.
