Computational Learning Theory : Second European Conference, EuroCOLT '95 Barcelona, Spain, March 13-15, 1995 Proceedings /

Vitányi, Paul

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Monografía

This volume presents the proceedings of the Second European Conference on Computational Learning Theory (EuroCOLT '95), held in Barcelona, Spain in March 1995. The book contains full versions of the 28 papers accepted for presentation at the conference as well as three invited papers. All relevant topics in fundamental studies of computational aspects of artificial and natural learning systems and machine learning are covered; in particular artificial and biological neural networks, genetic and evolutionary algorithms, robotics, pattern recognition, inductive logic programming, decision theory, Bayesian/MDL estimation, statistical physics, and cryptography are addressed

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structure of intrinsic complexity of learning -- Kolmogorov numberings and minimal identification -- Stochastic complexity in learning -- Function learning from interpolation (extended abstract) -- Approximation and learning of convex superpositions -- Minimum description length estimators under the optimal coding scheme -- MDL learning of unions of simple pattern languages from positive examples -- A note on the use of probabilities by mechanical learners -- Characterizing rational versus exponential learning curves -- Is pocket algorithm optimal? -- Some theorems concerning the free energy of (Un) constrained stochastic Hopfield neural networks -- A space-bounded learning algorithm for axis-parallel rectangles -- Learning decision lists and trees with equivalence-queries -- Bounding VC-dimension for neural networks: Progress and prospects -- Average case analysis of a learning algorithm for ?-DNF expressions -- Learning by extended statistical queries and its relation to PAC learning -- Typed pattern languages and their learnability -- Learning behaviors of automata from shortest counterexamples -- Learning of regular expressions by pattern matching -- The query complexity of learning some subclasses of context-free grammars

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