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Disciplina	006.3/1
Soggetti	Artificial intelligence Computers Mathematical logic Artificial Intelligence Theory of Computation Mathematical Logic and Formal Languages Computation by Abstract Devices
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Theory -- An Artificial Economy of Post Production Systems -- Simple Markov Models of the Genetic Algorithm in Classifier Systems: Accuracy-Based Fitness -- Simple Markov Models of the Genetic Algorithm in Classifier Systems: Multi-step Tasks -- Probability-Enhanced Predictions in the Anticipatory Classifier System -- YACS: Combining Dynamic Programming with Generalization in Classifier Systems -- A Self-Adaptive Classifier System -- What Makes a Problem Hard for XCS? -- Applications -- Applying a Learning Classifier System to Mining Explanatory and Predictive Models from a Large Clinical Database -- Strength and Money: An LCS Approach to Increasing Returns -- Using Classifier Systems as Adaptive Expert Systems for Control -- Mining Oblique Data with XCS -- Advanced Architectures -- A Study on the Evolution of Learning Classifier Systems -- Learning Classifier Systems Meet Multiagent Environments -- The Bibliography -- A Bigger Learning Classifier Systems Bibliography -- An Algorithmic

Description of XCS.

Sommario/riassunto

Learning classifier systems are rule-based systems that exploit evolutionary computation and reinforcement learning to solve difficult problems. They were introduced in 1978 by John H. Holland, the father of genetic algorithms, and since then they have been applied to domains as diverse as autonomous robotics, trading agents, and data mining. At the Second International Workshop on Learning Classifier Systems (IWLCS 99), held July 13, 1999, in Orlando, Florida, active researchers reported on the then current state of learning classifier system research and highlighted some of the most promising research directions. The most interesting contributions to the meeting are included in the book *Learning Classifier Systems: From Foundations to Applications*, published as LNAI 1813 by Springer-Verlag. The following year, the Third International Workshop on Learning Classifier Systems (IWLCS 2000), held September 15{16 in Paris, gave participants the opportunity to discuss further advances in learning classifier systems. We have included in this volume revised and extended versions of thirteen of the papers presented at the workshop.
