Cerri / Dochev

Artificial Intelligence: Methodology, Systems, and Applications

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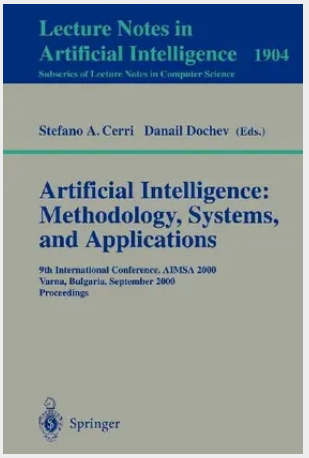

This book constitutes the refereed proceedings of the 9th International Conference on Artificial Intelligence: Methodology, Systems, and Applications, AIMSA 2000, held in Varna, Bulgaria in September 2000. The 34 revised full papers presented were carefully reviewed and selected from 60 submissions. The papers are organized in topical sections on knowledge construction, reasoning under certainty, reasoning under uncertainty, actors and agents, Web mining, natural language processing, complexity and optimization, fuzzy and neural systems, and algorithmic learning.

Knowledge Construction.- Dynamic Knowledge Representation and Its Applications.- Using Consensus Methods for Determining the Representation of Expert Informationin Distributed Systems.- Drafting and Validating Regulations: The Inevitable Use of Intelligent Tools.- Steps towards C+C: A Language for Interactions.- Reasoning under Certainty.- Efficient Reasoning Using the Local Closed-World Assumption.- Least Generalization under Relative Implication.- Theorem Proving for Constructive ?-Calculus.- Reasoning under Uncertainty.- Classification with Belief Decision Trees.- A Temporal Many-Valued Logic for Real Time Control Systems.- Propositional Contexts.- Best Paper Award.- An Alternative Approach to Dependency-Recording Engines in Consistency-Based Diagnosis.- Actors, Agents.- An Open Approach to Distribution, Awareness and Cooperative Work.- How to Schedule a Job Shop Problem through Agent Cooperation.- Revisable Analysis and Design throughout Actors Interaction.- Simulation and Multi-agent Environment for Aircraft Maintenance Learning.- Web, Mining.- Improving WWW Access - from Single-Purpose Systems to Agent Architectures?.- A General Architecture for Finding Structural Regularities on the Web.- Web Personalization Using Extended Boolean Operations with Latent Semantic Indexing.- Natural Language.- What Did He Mean by That?.- Integration of Resources and Components in a Knowledge-Based Web-Environment for Terminology Learning.- Maintaining a Jointly Constructed Student Model.- Metaphor Processing for Learning Terminology on the Web.- Development of Lexico-Grammar Resources for Natural Language Generation (Experience from AGILE Project).- Handling Diphthong and Triphone Symbols: Useful in Automatic English Text Generation from Pitman Shorthand Language Document.- Complexity and Optimization.- Complexity Issues in the Davis and Putnam Scheme.- Combining Local Search and Constraint Propagation to Find a Minimal Change Solution for a Dynamic CSP.- Fuzzy, Neural.- Construction of Efficient Rulesets from Fuzzy Data through Simulated Annealing.- Fuzzy-Neural Models for Real-Time Identification and Control of a Mechanical System.- A Neural Network Tool to Organize Large Document Sets.- User Authentication via Neural Network.- Learning.- Applying Preference Biases to Conjunctive and Disjunctive Version Spaces.- Coverage-Based Semi-distance between Horn Clauses.- Supervised Classification for the Triple Parity Strings.- Effective Iris Recognition System by Optimized Feature Vectors and Classifier.- Invited Papers.- Enabling Knowledge Creation, Sharing and Reuse on the World-Wide-Web.- Continuations and Conversations.

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