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<<应用人工智能发展 Developme>>

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内容概要

This book constitutes the refereed proceedings of the 15th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE 2002, held in Cairns, Australia, in June 2002.The 79 revised full papers presented were carefully reviewed and selected from more than 150 submissions. The papers are organized in topical sections on neural computation, image and speech processing, evolutionary and genetic algorithms, autonomous agents, Internet applications, expert systems, AI applications, knowledge processing, model-based reasoning, and adaptive systems.

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书籍目录

Neural Networks 1 An Error Back-Propagation Artificial Neural Networks Application in Automatic Car License Plate Recognition Use of Artificial Neural Networks for Buffet Loads Prediction Computational Cost Reduction by Selective Attention for Fast Speaker Adaptation in Multilayer Perceptron A Comparison of Neural Networks with Time Series Models for Forecasting Returns on a Stock Market IndexImage/Speech 1 Automatic Detection of Film Orientation with Support Vector Machines .. A Generic Approach for the Vietnamese Handwritten and Speech Recognition Problems Efficient and Automatic Faces Detection Based on Skin-Tone and Neural Network Model Efficient Image Segmentation Based on Wavelet and Watersheds for Video Objects ExtractionEvolutionary and Genetic Algorithms 1 FPGA-Based Implementation of Genetic Algorithm for the Traveling Salesman Problem and Its Industrial Application Minimal Addition Chain for Efficient Modular Exponentiation Using Genetic Algorithms Course Scheduling Using Genetic Algorithm Methods An Evolutionary Algorithm for the Synthesis of RAM-Based FSMs Genetic Algorithms for Design of Liquid Retaining StructureAutonomous Agents Modelling Crew Assistants with Multi-Agent Systems in Fighter Aircraft Learning from Human Decision-Making Behaviors-An Application to RoboCup Software Agents Distributed Deadlock Detection in Mobile Agent Systems An Agent-Based Approach for Production Control Incorporating Environmental and Life-Cycle Issues, together with Sensitivity Analysis Feasibility Restoration for Iterative Meta-heuristics Search Algorithms .Best Paper Candidates 1 Optimization of Pulse Pattern for a Multi-robot Sonar System Using Genetic Algorithm The Suitability of Particle Swarm Optimisation for Training Neural Hardware Evolutionary Multi-objective Integer Programming for the Design of Adaptive Cruise Control Systems The Macronet Element: A Substitute for the Conventional Neuron Genetic Algorithm Optimisation of Mathematical Models Using Distributed ComputingBest Paper Candiates 2Neural Networks 2Internet Applications 1Expert SystemsInternet Applications 2Evolutionary and Genetic Algorithms 2AI ApllicationsBest Paper Candidates 3Knowledge ProcessingImage/Speech 2Model Based ReasoningAdaptive ControlAuthor Index

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