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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.

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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