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Nota di contenuto	Invited Lectures -- Modelling Intelligent Behaviour: The Markov Decision Process Approach -- Emergence and Cognition: Towards a Synthetic Paradigm in AI and Cognitive Science -- The "Semantics" of Evolution: Trajectories and Trade-Offs in Design Space and Niche Space -- Searching the World Wide Web: Challenges and Partial Solutions -- Distributed Artificial Intelligence -- Groups and Societies: One and the Same Thing? -- From Mental States and Architectures to Agents' Programming -- Genetic Integration in a Multiagent System for Job-Shop Scheduling -- A New Dynamic Model for a Multi-Agent Formation -- A Case of Multiagent Decision Support: Using Autonomous Agents for Urban Traffic Control -- Machine Learning -- Lazy Learning Algorithms for Problems with Many Binary Features and Classes -- GD: A Measure Based on Information Theory for Attribute Selection -- Robust Incremental Clustering with Bad Instance Orderings: A New Strategy -- Distributed Reinforcement Learning in Multi-agent Decision Systems -- Dynamic Discretization of Continuous Attributes -- Intelligent Collaborative Information Retrieval -- Reasoning -- Analysis of Agent Programs Using Action Models -- Bayesian Networks for Reliability Analysis of Complex Systems -- Temporal Representation and Reasoning for Dynamic Environments -- Heuristics for Improving the Non-oblivious Local Search for MaxSAT -- Integrating the

Completion and the Well Founded Semantics -- Vision -- Recognition of Partially Occluded Flat Objects -- Estimating 3D Shape from the Optical Flow of Photometric Stereo Images -- Computer Vision Interaction for Virtual Reality -- Placing Artificial Visual Landmarks in a Mobile Robot Workspace -- Genetic Algorithms -- Selection Analysis in Genetic Algorithms -- Human Face Identification Using Invariant Descriptions and a Genetic Algorithm -- Using the Min-Max Method to Solve Multiobjective Optimization Problems with Genetic Algorithms -- A New Genetic Operator for the Traveling Salesman Problem -- Decision Queue Classifier for Supervised Learning Using Rotated Hyperboxes -- Knowledge Engineering -- SpADD: An Active Design Documentation Framework Extension Applied to Spatial Layout Design Problems -- A Systematic Approach for Building Ontologies -- Intelligent Tutoring Systems -- A Method to Diagnose the User's Level -- Natural Language Processing -- Phonetic Classification in Spanish Using a Hierarchy of Specialized ANNs -- Neural Nets -- A Generalisation Study on Neural Corner Detection -- Constraint Programming -- Defeasible Constraint Solving over the Booleans -- Planning -- A Nonlinear Planner for Solving Sequential Control Problems in Manufacturing Systems.

| Sommario/riassunto | When in October 1996 in Cholula (Puebla, Mexico), I took charge of organizing the scienti?c program of the next Ibero-American Congress on Arti?cial Intel- gence (IBERAMIA 98) I bet on a couple of ideas. First, I adopted the spirit of the Portuguese adventurers to get the Sixth Congress on a truly international track. In order to attain this aim I needed to convince everybody that the Ibero- American AI community had improved over the years and attained a very good level in what concerns individuals. Second, I brought my colleagues beside me so that we were able to collect su?cient excellent papers without destroying the pioneering spirit of those who ?rst inaugurated the Congress. Getting together to ?nd out what is in progress in the vast region in which Latin languages (P- tuguese and Spanish) are spoken, attracting others to exchange ideas with us, and by doing this advancing AI in general, is a risky untertaking. This book is the result, and it sets a new standard to be discussed by all of us. IBERAMIA was established in 1988 (Barcelona) by three Ibero-American AI Associations (AEPIA from Spain, SMIA from Mexico, and APPIA from Por- gal), after a ?rst meeting in Morelia (Mexico) in 1986 of SMIA and AEPIA. |