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Descrizione fisica	1 online resource (XVI, 508 p.)
Collana	Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 2902
Disciplina	006.3
Soggetti	Artificial intelligence Computer programming Computer science Database management Information storage and retrieval systems Artificial Intelligence Programming Techniques Theory of Computation Database Management Information Storage and Retrieval
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Abstracts of Invited Presentations and Tutorials -- Constraint Programming in Computational Molecular Biology -- Computational Creativity -- From Wheels to Wings with Evolutionary Spiking Circuits -- An Introduction to Object-Oriented RuleML -- Learning from Networks of Examples -- Grammar Induction and Adaptive Information Disclosure -- Understanding Implicit Language Structures -- Performance Issues in Prolog Applications -- Artificial Life and Evolutionary Algorithms (ALEA) -- Optimization of Logistic Processes in

Supply-Chains Using Meta-heuristics -- Evolutionary Neural Network Learning -- Golomb Rulers: The Advantage of Evolution -- A Particle Swarm Data Miner -- Yerkes-Dodson Law in Agents' Training -- SAPPO: A Simple, Adaptable, Predator Prey Optimiser -- Evolutionary Neuroestimation of Fitness Functions -- A Resource Sharing Model to Study Social Behaviours -- Improving Self-Confidence: An Advise-Based Evolutionary Model -- Constraint and Logic Programming Systems (CLPS) -- Solving Set Partitioning Problems with Global Constraint Propagation -- Heuristic-Based Backtracking for Propositional Satisfiability -- On the BEAM Implementation -- YapDss: An Or-Parallel Prolog System for Scalable Beowulf Clusters -- Experimental Evaluation of a Caching Technique for ILP -- jcc: Integrating Timed Default Concurrent Constraint Programming into Java -- Extraction of Knowledge from Data Bases (EKDB) -- BAYES-NEAREST: A New Hybrid Classifier Combining Bayesian Network and Distance Based Algorithms -- A Data Mining Approach to Credit Risk Evaluation and Behaviour Scoring -- Influence of kNN-Based Load Forecasting Errors on Optimal Energy Production -- Creating User-Adapted Design Recommender System through Collaborative Filtering and Content Based Filtering -- Is the UCI Repository Useful for Data Mining? -- Improving the Efficiency of ILP Systems -- Reorganizing News Web Pages for Mobile Users -- Learning Semi Naïve Bayes Structures by Estimation of Distribution Algorithms -- Learning Action Theories with Ramifications -- Mining Low Dimensionality Data Streams of Continuous Attributes -- Adaptation to Drifting Concepts -- Border Detection on Remote Sensing Satellite Data Using Self-Organizing Maps -- Predicting Harmful Algae Blooms -- Improving Progressive Sampling via Meta-learning -- Multi-Agents and AI for the Internet (MAII) -- Distributed Learning Agents in Urban Traffic Control -- The Chatbot Feeling -- Towards Animated Emotional ECAs -- Using CLIPS to Detect Network Intrusions -- Model for Dialogue between Informational Agents -- A Possibilistic Logic Modeling of Autonomous Agents Negotiation -- Towards Individual Power Design -- An Architecture for a Rational Reactive Agent -- An Evolvable Rule-Based E-mail Agent -- Natural Language and Text Retrieval (NLTR) -- Automatic Summarization Based on Principal Component Analysis -- A Constraint Grammar Based Question Answering System for Portuguese -- Mining Generalized Character n-Grams in Large Corpora -- A Methodology to Create Ontology-Based Information Retrieval Systems -- A Preliminary Approach to the Multilabel Classification Problem of Portuguese Juridical Documents -- Synonymy for Query Expansion in Information Search -- Web Information Retrieval with Result Set Clustering -- ASdeCopas: A Syntactic-Semantic Interface -- Automatic Selection of Table Areas in Documents for Information Extraction -- Mandarin Question Sentence Detection: A Preliminary Study -- Acquiring Semantic Classes to Elaborate Attachment Heuristics -- Managing Dialog in a Natural Language Querying System.

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## Sommario/riassunto

When we set about organizing EPIA 2003 in Porto during the APPIA meeting at the previous edition of the conference, EPIA 2001, it was decided that it would be organized by Fernando Moura Pires (Faj´e) and myself. We chose Beja as the venue to host the conference, as it provided a good support infrastructure and Fernando had a good working relationship with several people at the Beja Polytechnic Institute. Shortly thereafter, Fernando came to know that he was ailing from a disease that wastotakehislifeinMay2003. Aswithmanyotherprojectsinwhichhegot involved, Fernando clung to the organization of this conference with dedication and perseverance, even while knowing that he might not see the results of his work. EPIA 2003

is a tribute to his work. Taking up on the successful experience gained from EPIA 2001, we decided to structure EPIA 2003 as a set of 7ve distinct workshops, roughly re?ecting the panorama of AI research in Portugal. Special thanks are due to the organizers of each workshop, for the quality and timeliness of the work they carried out. The conference was all the more interesting because of the eight invited presentations and tutorials, by Alexander Bockmayr, Am?lcar Cardoso, Dario F- reano, Harold Boley, Pedro Domingos, Pieter Adriaans, Veronica Dahland Vitor Santos Costa. There are short one-page abstracts included in these proceedings for some of these presentations.

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