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| Collana                 | Lecture Notes in Artificial Intelligence, , 2945-9141 ; ; 3955   |
| Altri autori (Persone)  | AntoniouG (Grigoris)   |
| Disciplina              | 006.3  |
| Soggetti                | Artificial intelligence<br>Application software<br>Information storage and retrieval systems<br>Algorithms<br>Computer vision<br>Database management<br>Artificial Intelligence<br>Computer and Information Systems Applications<br>Information Storage and Retrieval<br>Computer Vision<br>Database Management  |
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| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Bibliographic Level Mode of Issuance: Monograph  |
| Nota di bibliografia    | Includes bibliographical references and index.   |
| Nota di contenuto       | Invited Talks -- Planning with Stochastic Petri-Nets and Neural Nets -- Data Mining Using Fractals and Power Laws -- Full Papers -- Voice Activity Detection Using Generalized Gamma Distribution -- A Framework for Uniform Development of Intelligent Virtual Agents -- A Mixture Model Based Markov Random Field for Discovering Patterns in Sequences -- An Efficient Hardware Implementation for AI Applications -- Handling Knowledge-Based Decision Making Issues in Collaborative Settings: An Integrated Approach -- Market Clearing Price Forecasting in Deregulated Electricity Markets Using Adaptively Trained Neural Networks -- Adaptive-Partitioning-Based Stochastic Optimization |

Algorithm and Its Application to Fuzzy Control Design -- Fuzzy Granulation-Based Cascade Fuzzy Neural Networks Optimized by GA-RSL -- Using Self-similarity Matrices for Structure Mining on News Video -- Spam Detection Using Character N-Grams -- Improved Wind Power Forecasting Using a Combined Neuro-fuzzy and Artificial Neural Network Model -- A Long-Term Profit Seeking Strategy for Continuous Double Auctions in a Trading Agent Competition -- A Robust Agent Design for Dynamic SCM Environments -- A Novel Updating Scheme for Probabilistic Latent Semantic Indexing -- Local Additive Regression of Decision Stumps -- Mining Time Series with Mine Time -- Behaviour Flexibility in Dynamic and Unpredictable Environments: The ICagent Approach -- Investigation of Decision Trees (DTs) Parameters for Power System Voltage Stability Enhancement -- An Improved Hybrid Genetic Clustering Algorithm -- A Greek Named-Entity Recognizer That Uses Support Vector Machines and Active Learning -- Intelligent Segmentation and Classification of Pigmented Skin Lesions in Dermatological Images -- Modelling Robotic Cognitive Mechanisms by Hierarchical Cooperative CoEvolution -- Bayesian Feature Construction -- Musical Instrument Recognition and Classification Using Time Encoded Signal Processing and Fast Artificial Neural Networks -- O-DEVICE: An Object-Oriented Knowledge Base System for OWL Ontologies -- Abduction for Extending Incomplete Information Sources -- Post Supervised Based Learning of Feature Weight Values -- Recognition of Greek Phonemes Using Support Vector Machines -- Ensemble Pruning Using Reinforcement Learning -- Mining Bilingual Lexical Equivalences Out of Parallel Corpora -- Feed-Forward Neural Networks Using Hermite Polynomial Activation Functions -- A Distributed Branch-and-Bound Algorithm for Computing Optimal Coalition Structures -- Pattern Matching-Based System for Machine Translation (MT) -- Bayesian Metanetwork for Context-Sensitive Feature Relevance -- Prediction of Translation Initiation Sites Using Classifier Selection -- Improving Neural Network Based Option Price Forecasting -- Large Scale Multikernel RVM for Object Detection -- Extraction of Salient Contours in Color Images -- Dynamic Security Assessment and Load Shedding Schemes Using Self Organized Maps and Decision Trees -- Towards Automatic Synthesis of Educational Resources Through Automated Planning -- Towards Capturing and Enhancing Entertainment in Computer Games -- Employing Fujisaki's Intonation Model Parameters for Emotion Recognition -- Detection of Vocal Fold Paralysis and Edema Using Linear Discriminant Classifiers -- Short Papers -- An Artificial Neural Network for the Selection of Winding Material in Power Transformers -- Biomedical Literature Mining for Text Classification and Construction of Gene Networks -- Towards Representational Autonomy of Agents in Artificial Environments -- Combining Credibility in a Source Sensitive Argumentation System -- An Environment for Constructing and Exploring Visual Models of Logic Propositions by Young Students -- Bridging Ontology Evolution and Belief Change -- A Holistic Methodology for Keyword Search in Historical Typewritten Documents -- Color Features for Image Fingerprinting -- Neural Recognition and Genetic Features Selection for Robust Detection of E-Mail Spam -- Violence Content Classification Using Audio Features -- An Analysis of Linear Weight Updating Algorithms for Text Classification -- On Small Data Sets Revealing Big Differences -- A Significance-Based Graph Model for Clustering Web Documents -- Supporting Clinico-Genomic Knowledge Discovery: A Multi-strategy Data Mining Process -- SHARE-ODS: An Ontology Data Service for Search and Rescue Operations -- Graphical Representation of Defeasible Logic Rules Using Digraphs --

An Efficient Peer to Peer Image Retrieval Technique Using Content Addressable Networks -- Predicting Fraudulent Financial Statements with Machine Learning Techniques -- Discrimination of Benign from Malignant Breast Lesions Using Statistical Classifiers -- Comparison of Data Fusion Techniques for Robot Navigation -- On Improving Mobile Robot Motion Control -- Consistency of the Matching Predicate -- Intrusion Detection Using Emergent Self-organizing Maps -- Mapping Fundamental Business Process Modelling Language to OWL-S -- Modeling Perceived Value of Color in Web Sites -- Introducing Interval Analysis in Fuzzy Cognitive Map Framework -- Discovering Ontologies for e-Learning Platforms -- Exploiting Group Thinking in Organization-Oriented Programming -- Multimodal Continuous Recognition System for Greek Sign Language Using Various Grammars -- An Alternative Suggestion for Vision-Language Integration in Intelligent Agents -- Specification of Reconfigurable MAS: A Hybrid Formal Approach -- An Intelligent Statistical Arbitrage Trading System -- Revising Faceted Taxonomies and CTCA Expressions -- Neighboring Feature Clustering.

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Sommario/riassunto

This book constitutes the refereed proceedings of the 4th Hellenic Conference on Artificial Intelligence, SETN 2006, held at Heraklion, Crete, Greece in May 2006. The 43 revised full papers and extended abstracts of 34 revised short papers presented together with 2 invited contributions address many areas of artificial intelligence; particular fields of interest include: logic programming, knowledge-based systems, intelligent information retrieval, machine learning, neural nets, genetic algorithms, and more.

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