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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Grounding Concrete Motion Concepts with a Linguistic Framework -- Emotion in Cognitive Systems Architectures -- Full Papers -- Application of Naturalistic Decision Making to Emergency Evacuation Simulations -- A Multi-agent Environment for Serving Proof Explanations in the Semantic Web -- A Study of SAT-Based Branching Heuristics for the CSP -- Autonomy in Virtual Agents: Integrating Perception and Action on Functionally Grounded Representations -- A Sparse Regression Mixture Model for Clustering Time-Series -- Human Distress Sound Analysis and Characterization Using Advanced Classification Techniques -- A Genetic Programming Environment for System Modeling -- Mining Gene Expression Profiles and Gene Regulatory Networks: Identification of Phenotype-Specific Molecular Mechanisms -- MOpiS: A Multiple Opinion Summarizer -- Human Behavior Classification Using Multiple Views -- A Hamming Maxnet That Determines all the Maxima -- Item-Based Filtering and Semantic Networks for Personalized Web Content Adaptation in E-Commerce -- Fuzzy Representation and Synthesis of Concepts in Engineering Design -- Phonotactic Recognition of Greek and Cypriot Dialects from Telephone Speech -- A "Bag" or a "Window" of Words for Information Filtering? -- A Fuzzy Clustering Algorithm to Estimate the Parameters of Radial Basis Functions Neural Networks and Its Application to System

Modeling -- Speech/Music Discrimination Based on Discrete Wavelet Transform -- Comparing Datasets Using Frequent Itemsets: Dependency on the Mining Parameters -- A Theory of Action, Knowledge and Time in the Event Calculus -- Tensor Space Models for Authorship Identification -- Efficient Incremental Model for Learning Context-Free Grammars from Positive Structural Examples -- Enhancing NetLogo to Simulate BDI Communicating Agents -- Integration of Computational Intelligence Applications in Engineering Design -- A Prolog Based System That Assists Experts to Construct and Simulate Fuzzy Cognitive Maps -- Incremental Relevance Vector Machine with Kernel Learning -- Histogram-Based Visual Object Recognition for the 2007 Four-Legged RoboCup League -- Learning Ontologies of Appropriate Size -- Short Papers -- Bayesian Model of Recognition on a Finite Set of Events -- The DR-Prolog Tool Suite for Defeasible Reasoning and Proof Explanation in the Semantic Web -- Modeling Stroke Diagnosis with the Use of Intelligent Techniques -- Introducing Parallel Computations to a PTTP-Based First-Order Reasoning Process in the Oz Language -- A Dense Stereo Correspondence Algorithm for Hardware Implementation with Enhanced Disparity Selection -- MyCites: An Intelligent Information System for Maintaining Citations -- Improving the Integration of Neuro-Symbolic Rules with Case-Based Reasoning -- Rule-Based Fuzzy Logic System for Diagnosing Migraine -- An Individualized Web-Based Algebra Tutor Based on Dynamic Deep Model Tracing -- Design and Optimization of IIR Digital Filters with Non-standard Characteristics Using Continuous Ant Colony Optimization Algorithm -- An Empirical Study of Lazy Multilabel Classification Algorithms -- An Algorithm of Decentralized Artificial Immune Network and Its Implementation -- Predicting Defects in Software Using Grammar-Guided Genetic Programming -- A Clustering Framework to Build Focused Web Crawlers for Automatic Extraction of Cultural Information -- Non-negative Matrix Factorization for Endoscopic Video Summarization -- Nature Inspired Intelligence for the Constrained Portfolio Optimization Problem -- CLIVE – An Artificially Intelligent Chat Robot for Conversational Language Practice.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th Hellenic Conference on Artificial Intelligence, SETN 2008, held at Syros, Greece in October 2008. The 27 revised full papers together with 17 revised short papers were carefully reviewed and selected from 76 submissions. The papers address any area of artificial intelligence; particular fields of interest include: Adaptive Systems, AI and Creativity, AI architectures, Artificial Life, Autonomous Systems, Data Mining and Knowledge Discovery, Hybrid Intelligent Systems & Methods, Intelligent Agents, Multi-agent Systems, Intelligent Distributed Systems, Intelligent Information Retrieval, Intelligent/Natural Interactivity, Intelligent Virtual Environments, Knowledge Representation and Reasoning, Logic Programming, Knowledge-Based Systems, Machine Learning, Neural Nets, Genetic Algorithms, Natural Language Processing, Planning and Scheduling, Problem Solving, Constraint Satisfaction, Robotics, Machine Vision, Machine Sensing.