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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Talk -- Reasoning about Teaching and Learning -- Selected Papers from the 10th Conference of the Spanish Association for Artificial Intelligence (CAEPIA03) -- A Document-Oriented Approach to the Development of Knowledge Based Systems -- A Flexible Approach to the Multidimensional Model: The Fuzzy Datacube -- A Framework for Ontology Reuse and Persistence Integrating UML and Sesame -- A Method to Adaptively Propagate the Set of Samples Used by Particle Filters -- A Model for Fuzzy Temporal Reasoning on a Database -- A Multimodal Logic Approach to Order of Magnitude Qualitative Reasoning -- A New Genetic Approach for the Partitioning Problem in Distributed Virtual Environment Systems -- A Proposal of Diagnosis for

an ITS for Computational Logic -- A Reasoning Model for CBR_BDI Agents Using an Adaptable Fuzzy Inference System -- A Recurrent Neural Network for Airport Scales Location -- Adaptive P2P Multimedia Communication Using Hybrid Learning -- An Approach for Ontology Building from Text Supported by NLP Techniques -- An Efficient Preprocessing Transformation for Functional Dependencies Sets Based on the Substitution Paradigm -- An Evolutionary Algorithm for Solving Word Equation Systems -- Analysis of the Functional Block and Operator Involved in Fuzzy System Design -- Analysis of the Topology Preservation of Accelerated Growing Neural Gas in the Representation of Bidimensional Objects -- Application of Crossover Operators Based on Confidence Interval in Modeling Problems Using Real-Coding Genetic Algorithms -- ASPerson: Agent System for Personalizing Web Contents over Wireless Connection -- Automatic Computation of the Fundamental Matrix from Matched Lines -- BOGAR_LN: An Agent Based Component Framework for Developing Multi-modal Services Using Natural Language -- Building Software Agents from Software Components -- Clustering Main Concepts from e-Mails -- Definition of Postural Schemes for Humanoid Robots -- Designing a Semantic Portal for Collaborative Learning Communities -- Dialogue Act Classification in a Spoken Dialogue System -- Distributed Non-binary Constraints -- Dynamic User Modeling in a System for Personalization of Web Contents -- Embracing Causality in Inducing the Effects of Actions -- Employing TSK Fuzzy Models to Automate the Revision Stage of a CBR System -- Enhancing Consistency Based Diagnosis with Machine Learning Techniques -- Exploiting Disambiguated Thesauri for Information Retrieval in Metadata Catalogs -- Face Detection with Active Contours Using Color Information -- Formal Verification of Molecular Computational Models in ACL2: A Case Study -- Fuzzy Logic Based Torque Ripple Minimization in Switched Reluctance Motors -- Generating Random Orthogonal Polygons -- Genetic Programming for Automatic Generation of Image Processing Algorithms on the CNN Neuroprocessing Architecture -- Heuristic Based Sampling in Estimation of Distribution Algorithms: An Initial Approach -- Heuristic Rules and Genetic Algorithms for Open Shop Scheduling Problem -- Hybrid Approach Based on Temporal Representation and Classification Techniques Used to Determine Unstable Conditions in a Blast Furnace -- Kernel Functions over Orders of Magnitude Spaces by Means of Usual Kernels. Application to Measure Financial Credit Risk -- Negotiation Support in Highly-Constrained Trading Scenarios -- Normalized Cyclic Edit Distances: An Efficient Algorithm -- On the Heuristic Performance of Perimeter Search Algorithms -- Plug&Play Object Oriented Bayesian Networks -- Real-Time Extensions in Multi-agent Communication -- Representing Canonical Models as Probability Trees -- Robust Aggregation of Expert Opinions Based on Conflict Analysis and Resolution -- Rotation-Based Ensembles -- SACEME: An Authoring Tool for Knowledge Acquisition Using Techniques of Programming by Examples -- Scatter Search for the Feature Selection Problem -- Social Analysis of Multi-agent Systems with Activity Theory -- SoftComputing Techniques Applied to Catalytic Reactions -- Sports Image Classification through Bayesian Classifier -- Text Mining Using the Hierarchical Syntactical Structure of Documents -- The Synergy of GA and Fuzzy Systems for Multidimensional Problem: Application to Time Series Prediction -- Time-Series Prediction: Application to the Short-Term Electric Energy Demand -- Towards a Clinical Practice Guideline Implementation for Asthma Treatment -- Towards a Generic Multiagent Model for Decision Support: Two Case Studies -- Towards Biresiduated Multi-adjoint Logic Programming -- Using the Geometrical

Distribution of Prototypes for Training Set Condensing -- X-Learn: An Intelligent Educational System Oriented towards the Net -- Selected Papers from the 5th Sessions on Technology Transfer of Artificial Intelligence (TTIA03) -- A Neuro-fuzzy Decision Model for Prognosis of Breast Cancer Relapse -- An Interactive Train Scheduling Tool for Solving and Plotting Running Maps -- Application of Evolutionary Computation Techniques to the Optimal Short-Term Scheduling of the Electrical Energy Production -- Integration of a Generic Diagnostic Tool in Virtual Environments for Procedural Training -- TAPLI: An Adaptive Web-Based Learning Environment for Linear Programming.
