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Nota di contenuto	Invited Papers -- Negotiation Technologies -- Knowledge Discovery for Training Intelligent Agents: Methodology, Tools and Applications -- Artificial Immune Systems—An Emergent Technology for Autonomous Intelligent Systems and Data Mining -- Evolving Agents: Communication and Cognition -- Agents and Data Mining: Mutual Enhancement by Integration -- Soft-Device Inheritance in the Knowledge Grid -- Agent Based Data Mining Issues -- Towards the Adaptive Organization: Formation and Conservative Reconfiguration of

Agents Coalitions -- A Cooperative Multi-agent Data Mining Model and Its Application to Medical Data on Diabetes -- Technology of Agent-Based Decision Making System Development -- An Architecture for Distributed Agent-Based Data Preprocessing -- Meta-reasoning Methods for Agent's Intention Modelling -- Execution Engine of Meta-learning System for KDD in Multi-agent Environment -- A Methodology for Predicting Agent Behavior by the Use of Data Mining Techniques -- Ontology and Web Mining -- Topic-Specific Text Filtering Based on Multiple Reducts -- Parallel Algorithm for Mining Frequent Closed Sequences -- Decision Trees Capacity and Probability of Misclassification -- Querying Dynamic and Context-Sensitive Metadata in Semantic Web -- Ontology Issue in Multi-agent Distributed Learning -- Ontology-Based Users and Requests Clustering in Customer Service Management System -- Multi-agent Approach for Community Clustering Based on Individual Ontology Annotations -- Applications and Case Studies -- Effective Discovery of Intrusion Protection Strategies -- Integrating Knowledge Through Cooperative Negotiation -- A Case Study in Bioinformatics -- Data Mining Techniques for RoboCup Soccer Agents.

Sommario/riassunto

This volume contains the papers presented at the International Workshop "Autonomous Intelligent Systems: Agents and Data Mining" (AIS-ADM 2005) held in St. Petersburg, Russia, during June 6-8, 2005. The workshop was organized by the St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS) in cooperation with Binghamton University (SUNY, USA) and the Web Intelligence Consortium. Autonomous Intelligent Systems (AIS) constitute an emerging class of intelligent information systems integrating recent advances in various technologies of Artificial Intelligence. Modern AIS incorporate multi-agent and data mining systems providing a new dimension for further progress in intelligent information technology. AIS-ADM 2005 provided an international forum to multi-agent and data mining researchers. A total of 29 papers from 15 countries relating to various aspects of both theory and applications of multi-agent systems, data mining and their joint area were submitted to AIS-ADM 2005. Out of them 17 were selected as regular presentations. Three technical sessions were organized, namely: Integration of Multi-agent and Data Mining Techniques; Ontology Issues and Web Mining; and Applications and Case Studies of the Integrated Technology. The panel discussion was devoted to the mutual enrichment and challenging problems emerging in the joint area of research. The AIS-ADM 2005 program was enriched by six distinguished invited speakers: Nick Jennings, Chengqi Zhang, Mircea Negoita, Pericles Mitkas, Hai Zhu and Leonid Perlovsky.