1. Record Nr. UNISA996466245803316

Titolo	Autonomous intelligent systems : agents and data mining : Second international workshop, AIS-ADM 2007, St. Petersburg, Russia, June 3-5, 2007 : proceedings / / Vladimir Gorodetsky [and three others] (editors)
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer-Verlag, , [2007] ©2007
ISBN	1-280-95660-7 9786610956609 3-540-72839-2
Edizione	[1st ed. 2007.]
Descrizione fisica	1 online resource (333 p.)
Collana	Lecture Notes in Computer Science ; ; 4476
Disciplina	006.3
Soggetti	Intelligent agents (Computer software) Data mining
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Peer-to-Peer Data Mining, Privacy Issues, and Games -- Ontos Solutions for Semantic Web: Text Mining, Navigation and Analytics -- Robust Agent Communities -- WI Based Multi-aspect Data Analysis in a Brain Informatics Portal -- Agent and Data Mining -- Agent-Mining Interaction: An Emerging Area -- Evaluating Knowledge Intensive Multi-agent Systems -- Towards an Ant System for Autonomous Agents -- Semantic Modelling in Agent-Based Software Development -- Combination Methodologies of Multi-agent Hyper Surface Classifiers: Design and Implementation Issues -- Security in a Mobile Agent Based DDM Infrastructure -- Automatic Extraction of Business Rules to Improve Quality in Planning and Consolidation in Transport Logistics Based on Multi-agent Clustering -- Intelligent Agents for Real Time Data Mining in Telecommunications Networks -- Architecture of Typical Sensor Agent for Learning and Classification Network -- Self-organizing Multi-agent Systems for Data Mining -- Role-Based Decision Mining for Multiagent Emergency Response Management -- Agent Competition and Data Mining -- Virtual Markets:

Q-Learning Sellers with Simple State Representation -- Fusion of Dependence Networks in Multi-agent Systems - Application to Support Net-Enabled Littoral Surveillance -- Multi-agent Framework for Simulation of Adaptive Cooperative Defense Against Internet Attacks -- On Competing Agents Consistent with Expert Knowledge -- On-Line Agent Teamwork Training Using Immunological Network Model -- Text Mining, Semantic Web, and Agents -- Combination of Rough Sets and Genetic Algorithms for Text Classification -- Multi-agent Meta-search Engine Based on Domain Ontology -- Efficient Search Technique for Agent-Based P2P Information Retrieval -- Classification of Web Documents Using Concept Extraction from Ontologies -- Emotional Cognitive Agents with Adaptive Ontologies -- Viral Knowledge Acquisition Through Social Networks -- Chinese Weblog Pages Classification Based on Folksonomy and Support Vector Machines.

Sommario/riassunto

Since early 1990, multi-agent systems (MAS), data mining, and knowledge discovery (KDD) have remained areas of high interest in the research and development of intelligent information technologies. Indeed, MAS offers powerful metaphors for information system conceptualization, a range of new techniques, and technologies specifically focused on the design and implementation of lar- scale open distributed intelligent systems. KDD also provides intelligent information technology with powerful ideas, algorithms, and software means to help cope with the main problem of artificial intelligence, formulated in the we- known question “Where does the knowledge come from?”, thus actually making modern applications intelligent and adaptive. The evident recent trend in both science and industry is to integrate and take advantage of both technologies. The existing experience with combined application of multi-agent technology to design architectures of distributed (hierarchical and peer-to-peer) data mining and KDD systems, as well as the utilization of data mining and KDD achievements to provide enhanced intelligence of MAS, confirms the fact that both technologies are capable of mutual enrichment and their integrated use may result in intelligent information systems with new emergent properties. The 1st International Workshop “Autonomous Intelligent Systems: Agents and Data Mining” (AIS-ADM 2005, June 6–8, 2005, St. Petersburg, Russia) was a response to the aforementioned trend. It confirmed the interest of academic and industry communities in advancing the efforts to integrate achievements in MAS and KDD, thus resulting in a new dimension and further progress in intelligent information technology.