

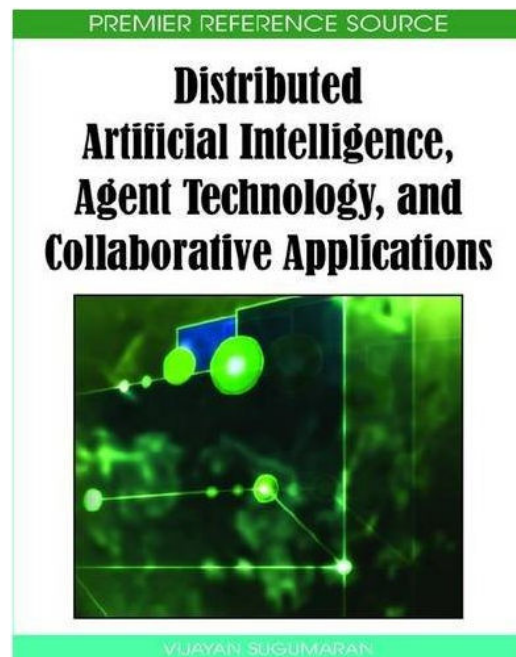
**DISTRIBUTED ARTIFICIAL INTELLIGENCE, AGENT TECHNOLOGY, AND
COLLABORATIVE APPLICATIONS**
**(“INTELIGENȚĂ ARTIFICIALĂ DISTRIBUITĂ, TEHNOLOGIA AGENȚILOR ȘI
APLICAȚII COLABORATIVE”)**
by Vijayan Sugumaran
Information Science Reference, 2009

Vijayan Sugumaran is a professor of management information systems in the Department of Decision and Information Sciences at Oakland University (Rochester, MI). Dr. Sugumaran received his BTech in mining engineering from the Indian School of Mines, MS in mining engineering from the University of Alaska Fairbanks, and PhD in information technology from George Mason University. His research interests are in the areas of intelligent agent and multi-agent systems, component based software development and reuse, ontologies, Semantic Web and Web services, and Internet technologies.

Distributed Artificial Intelligence, Agent Technology, and Collaborative Applications offers an enriched set of research articles in artificial intelligence (AI), covering significant AI subjects such as information retrieval, conceptual modeling, supply chain demand forecasting, and machine learning algorithms. This comprehensive collection provides libraries with a one-stop resource to equip the academic, industrial, and managerial communities with an in-depth look into the most pertinent AI advances that will lead to the most valuable applications.

The book is structured in 19 chapters, as in the contents below:

- Chapter I: Designing Multi-Agent Systems from Logic Specifications - A Case Study
- Chapter II: Multi-Agent Architecture for Knowledge-Driven Decision Support
- Chapter III: A Decision Support System for Trust Formalization
- Chapter IV: Using Misunderstanding and Discussion in Dialog as a Knowledge Acquisition or Enhancement Process
- Chapter V: Improving E-Trade Auction Volume by Consortium
- Chapter VI: Extending Loosely Coupled Federated Information Systems Using Agent Technology
- Chapter VII: Modeling Fault Tolerant and Secure Mobile Agent Execution in Distributed Systems
- Chapter VIII: Search Engine Performance Comparisons
- Chapter IX: A User-Centered Approach for Information Retrieval
- Chapter X: Classification and Retrieval of Images from Databases Using Rough Set Theory
- Chapter XI: Supporting Text Retrieval by Typographical Term Weighting
- Chapter XII: Web Mining by Automatically Organizing Web Pages into Categories
- Chapter XIII: Mining Matrix Pattern from Mobile Users
- Chapter XIV: Conceptual Modeling of Events for Active Information Systems



Chapter XV: Information Modeling and the Problem of Universals

Chapter XVI: Empirical Inference of Numerical Information into Causal Strategy

Models by Means of Artificial Intelligence

Chapter XVII: Improving Mobile Web Navigation Using N-Grams Prediction Models

Chapter XVIII: Forecasting Supply Chain Demand using Machine Learning

Algorithms

Chapter XIX: Supporting Demand Supply Network Optimization with Petri Nets

This book discusses a number of agent based applications developed for knowledge-driven decision support, online auctions, federated information systems, and mobile computing. Similarly, in the area of search and retrieval, the book provides current research in search engine performance, user centered approach for information and image retrieval, web mining and document clustering.

Cutting-edge developments in artificial intelligence are now driving applications that are only hinting at the level of value they will soon contribute to organizations, consumers, and societies across all domains. (<http://www.amazon.com/Distributed-Intelligence-Collaborative-Applications-Technologies/dp/1605661449>)

Research from around the world, collected here, examines a number of agent-based applications developed for knowledge-driven decision support, online auctions, federal information systems, and mobile computing.

This essential publication is for all academic and research libraries, as well as anyone working in the field of artificial intelligence using machines for reasoning, knowledge, planning, learning, communication, perception and the ability to move and manipulate objects. This publication will also serve as an authoritative reference for many fields, including computer science, psychology, philosophy, neuroscience, cognitive science, and data management. (http://www.eurospanbookstore.com/pdf/title_information_sheet/9781605661445.pdf)

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