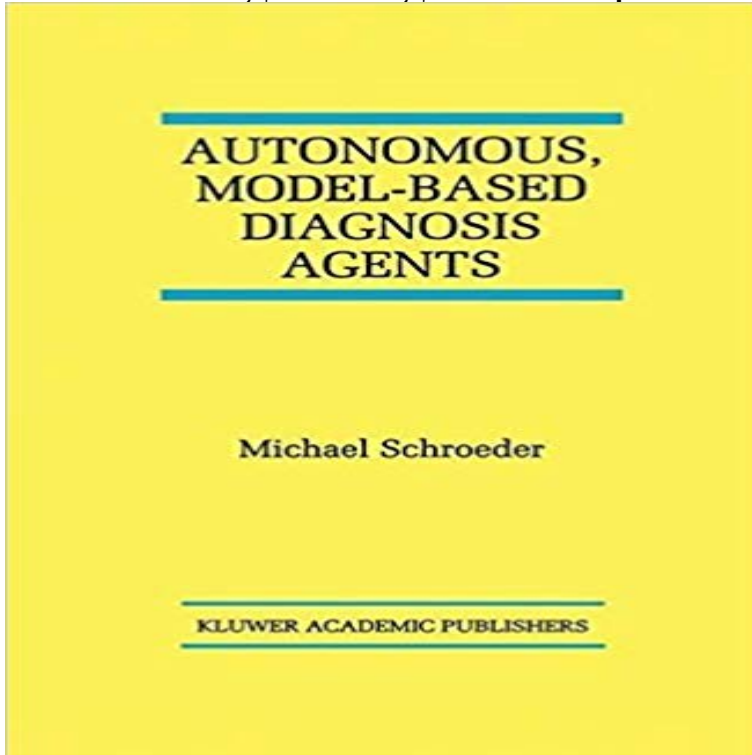


# Autonomous, Model-Based Diagnosis Agents (The Springer International Series in Engineering and Computer Science)



Autonomous, Model-Based Diagnosis Agents defines and describes the implementation of an architecture for autonomous, model-based diagnosis agents. It does this by developing a logic programming approach for model-based diagnosis and introducing strategies to deal with more complex diagnosis problems, and then embedding the diagnosis framework into the agent architecture of vivid agents.

Autonomous, Model-Based Diagnosis Agents surveys extended logic programming and shows how this expressive language is used to model diagnosis problems stemming from applications such as digital circuits, traffic control, integrity checking of a chemical database, alarm-correlation in cellular phone networks, diagnosis of an automatic mirror furnace, and diagnosis of communication protocols. The book reviews a bottom-up algorithm to remove contradiction from extended logic programs and substantially improves it by top-down evaluation of extended logic programs. Both algorithms are evaluated in the circuit domain including some of the ISCAS85 benchmark circuits. This comprehensive in-depth study of concepts, architectures, and implementation of autonomous, model-based diagnosis agents will be of great value for researchers, engineers, and graduate students with a background in artificial intelligence. For practitioners, it provides three main contributions: first, it provides many examples from diverse areas such as alarm correlation in phone networks to inconsistency checking in databases; second, it describes an architecture to develop agents; and third, it describes a sophisticated and declarative implementation of the concepts and architectures introduced.

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Sep 2, 2002 International Conference on Principles and Practice of Constraint Programming Model-Based Programming: Controlling Embedded Systems by Volume 2470 of the book series Lecture Notes in Computer Science (LNCS) reason about the models on the fly, to track system state, diagnose faults and **An Autonomous Spacecraft Agent Prototype - Springer** Oct 26, 2001 International Workshop on Formal Approaches to Agent-Based Systems Volume 1871 of the book series Lecture Notes in Computer Science (LNCS) development of autonomous controllers based on Livingstone, a model-based detect and diagnose anomalies and suggest possible recovery actions. **Integration of Fault Detection and Diagnosis in a - Springer Link** Autonomous, Model-Based Diagnosis Agents. Volume 442 of the series The Springer International Series in Engineering and Computer Science pp 123-126 **Nederlands - Publicaties** We implemented a prototype autonomous spacecraft agent within the agent architectures action selection and planning diagnosis integration and coordination of multiple activities fault protection operations real-time systems modeling at the First International Conference on Autonomous Agents in February 1997. **Giovanna Petrones papers - Unito** Autonomous, Model-Based Diagnosis Agents surveys extended logic Volume 442 de The Springer International Series in Engineering and Computer Science. **Autonomous, Model-Based Diagnosis Agents Michael - Springer** Scopri Autonomous, Model-Based Diagnosis Agents di Michael Schroeder: Collana: Springer International Series in Engineering and Computer Science **MEDICAL\_MAS: an Agent-Based System for Medical Diagnosis** A multi-agent infrastructure for developing personalized Web-based systems, PDF Fault Tolerant Web Service Orchestration by Means of Diagnosis, PDF, Springer Link. Ninth International Conference on User Modeling, June 22-26, 2003 . on Computer, Information, and Systems Sciences, and Engineering. **An Autonomous Spacecraft Agent Prototype SpringerLink** Autonomous, Model-Based Diagnosis Agents defines and describes the The Springer International Series in Engineering and Computer Science. **Autonomous, Model-Based Diagnosis Agents - Google Livres** Volume 4106 of the book series Lecture Notes in Computer Science (LNCS). Cite this paper as: Montani S., Anglano C. (2006) Case-Based Reasoning for **Artificial Immune Systems An Emergent - Springer Link** **Diagnosis of Multi-Agent Systems and Its Application - Springer Link** multi-threaded execution, and model-based diagnosis and reconfiguration. We implemented a prototype autonomous spacecraft agent within the robotsagent architecturesaction selection and planningdiagnosisintegration and coordination of multiple activitiesfault protectionoperationsreal-time systemsmodeling. **Robust Model-Based Fault Diagnosis for Dynamic Systems - Springer** International Workshop on Autonomous Intelligent Systems: Agents and Part of the Lecture Notes in Computer Science book series (LNCS, volume 3505) Namely, the component-based framework must be replaced with an agent-based one applications is made using a practical engineering design strategy that views **Autonomous, Model-Based Diagnosis Agents Michael - Springer** Virtual Agents. Volume 7502 of the series Lecture Notes in Computer Science pp 46-52 Virtual Social Partners Pedagogical Agents Autonomy. Page %P. **Autonomous, Model-Based Diagnosis Agents: : Michael** Volume 4687 of the series Lecture Notes in Computer Science pp 157-169 Especially in multi-agent environments violations of plan structure might easily occur as the Model-Based Diagnosis Plan execution Coordination errors . Springer International Publishing AG, Part of Springer Science+Business Media Privacy