

Michael Beetz

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# Plan-Based Control of Robotic Agents

Improving the Capabilities of Autonomous Robots



Springer

# Planbased Control Of Robotic Agents Improving The Capabilities Of Autonomous Robots

**Mario Alviano, Gianluigi  
Greco, Francesco Scarcello**



## **Planbased Control Of Robotic Agents Improving The Capabilities Of Autonomous Robots:**

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office couriers or robot tourguides must be both reliable and efficient. Thus they have to flexibly interleave their tasks, exploit opportunities quickly, plan their course of action, and if necessary, revise their intended activities. This book makes three major contributions to improving the capabilities of robotic agents: first, a plan representation method is introduced which allows for specifying flexible and reliable behavior; second, probabilistic hybrid action models are presented as a realistic causal model for predicting the behavior generated by modern concurrent percept-driven robot plans; third, the system XFRMLEARN, capable of learning structured symbolic navigation plans, is described in detail. **Agent and Multi-Agent Systems: Technologies and Applications** Adam Grzech, 2007-07-07 This book constitutes the refereed proceedings of the First International Symposium on Agent and Multi-Agent Systems Technologies and Applications KES AMSTA 2007 held in Wroclaw, Poland, in May/June 2007. Coverage includes agent-oriented Web applications, mobility aspects of agent systems, agents for network management, agent approaches to robotic systems, as well as intelligent and secure agents for digital content management. *Advances in Plan-Based Control of Robotic Agents* Michael Beetz, Leonidas Guibas, Joachim

Herzberg, Malik Ghallab, Martha E. Pollack, 2003-08-02 In recent years, autonomous robots including Xavier, Martha-1, Rhino-2, 3, Minerva, and Remote Agent have shown impressive performance in long-term demonstrations. In NASA's Deep Space program, for example, an autonomous spacecraft controller called the Remote Agent 5 has autonomously performed a scientific experiment in space. At Carnegie Mellon University, Xavier-6, another autonomous mobile robot, navigated through an office

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vironment for more than a year allowing people to issue navigation commands and monitor their execution via the Internet In 1998 Minerva 7 acted for 13 days as a museum tourguide in the Smithsonian Museum and led several thousand people through an exhibition These autonomous robots have in common that they rely on plan based control in order to achieve better problem solving competence In the plan based approach robots generate control actions by maintaining and executing a plan that is effective and has a high expected utility with respect to the robots current goals and beliefs Plans are robot control programs that a robot can not only execute but also reason about and manipulate 4 Thus a plan based controller is able to manage and adapt the robot's intended course of action the plan while executing it and can thereby better achieve complex and changing tasks

The British National Bibliography Arthur James Wells,2003      **Intelligent Autonomous Systems 7** Maria Gini,2002 The goal of the Seventh International Conference on Intelligent Autonomous Systems IAS 7 was to exchange and stimulate research ideas that make future robots and systems more intelligent and autonomous This volume of proceedings contains 71 technical papers by authors from 15 countries

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*KI 2003: Advances in Artificial Intelligence* Andreas Günter,Rudolf Kruse,Bernd Neumann,2003-09-09 This book constitutes the refereed proceedings of the 26th Annual German Conference on Artificial Intelligence KI 2003 held in Hamburg Germany in September 2003 The 42 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 90 submissions from 22 countries The papers are organized in topical sections on logics and ontologies cognitive modeling reasoning methods machine learning neural networks reasoning under uncertainty planning and constraints spatial modeling user modeling and agent technology

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Wolf, Mauro Dragone, Juan Ye, Carsten Röcker, Gregory O'Hare, 2013-12-14 This book constitutes the refereed proceedings of the workshops co located with the 4th International Joint Conference on Ambient Intelligence AmI 2013 held in Dublin Ireland in December 2013 The 33 revised full papers presented were carefully reviewed and selected from numerous submissions to the following workshops 5th International Workshop on Intelligent Environments Supporting Healthcare and Well being WISHWell 13 3d International workshop on Pervasive and Context Aware Middleware PerCAM 13 2nd International Workshop on Adaptive Robotic Ecologies ARE 13 International Workshop on Aesthetic Intelligence AxI 13 First International Workshop on Uncertainty in Ambient Intelligence UAmI13 The papers are organized in topical sections on intelligent environments supporting healthcare and well being adaptive robotic ecologies uncertainty in ambient intelligence aesthetic intelligence pervasive and context aware middleware **Books in Print Supplement** ,2002 **Exploring Cybernetics** Sabina Jeschke, Robert Schmitt, Alicia Dröge, 2015-12-04 Die Beitr ge des Sammelbandes befassen sich mit zentralen Themen der Kybernetik Was ist Kybernetik überhaupt Wie k nnen wir sie nutzen und wo k nnen wir sie einsetzen Die Autoren zeigen dass unser Digitalzeitalter von umfassenden technologischen Neuerungen komplexer Vernetzung und schnellen Innovationszyklen gekennzeichnet ist die sich klassischen Beschreibungsmodellen und traditionellen Regelungsmechanismen entziehen Immer vielf ltiger interagierende Strukturen erfordern neue Methoden um diese Komplexit t zu beschreiben und zu gestalten Hochkar tige WissenschaftlerInnen verschiedenster Fachgebiete erl utern die Kybernetik aus Sicht ihrer jeweiligen Disziplin AI\*IA 2007: Artificial Intelligence and Human-Oriented Computing Roberto Basili, Maria Teresa Pazienza, 2007-08-26 This book constitutes the refereed proceedings of the 10th Congress of the Italian Association for Artificial Intelligence AI IA 2007 Coverage includes knowledge representation and reasoning multiagent systems distributed AI knowledge engineering ontologies and the semantic Web machine learning natural language processing information retrieval and extraction AI and robotics AI and expressive media and intelligent access to multimedia information **Autonomous and Intelligent Systems** Mohamed Kamel, Fakhri Karray, Wail Gueaieb, Alaa Khamis, 2011-06-28 This book constitutes the refereed proceedings of the Second International Conference on Autonomous and Intelligent Systems AIS 2011 held in Burnaby BC Canada in June 2011 colocated with the International Conference on Image Analysis and Recognition IACIAR 2011 The 40 revised full papers presented were carefully reviewed and selected from 62 submissions The papers are organized in topical sections on autonomous and intelligent systems intelligent and advanced control systems intelligent sensing and data analysis human machine interaction and intelligent circuit analysis and signal processing Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,2003

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