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Collana	Lecture Notes in Artificial Intelligence ; ; 1456
Disciplina	629.8/92
Soggetti	Robotics Automation Artificial intelligence Software engineering Control engineering Mechatronics Robotics and Automation Artificial Intelligence Software Engineering/Programming and Operating Systems Control, Robotics, Mechatronics Software Engineering
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Nota di contenuto	Exhaustive geographic search with mobile robots along space-filling curves -- A multiagent system based on heterogeneous robots -- Designing organized agents for cooperation with real time constraints -- Tasking robots through multimodal interfaces: The "Coach Metaphor" -- Application of AOP for modeling a flexible manufacturing cell -- Performance and attention in multi-agent tasks -- Cirta: An emergentist methodology to design and evaluate collective behaviours in robots' colonies -- Communication in domains with unreliable, single-channel, low-bandwidth communication -- MARCH : A flexible multi-agent architecture, applied to autonomous robots playing football -- Decision trees and rule induction in simulated soccer agents

-- Rectangles and circles: Towards realistic simulation of robots playing soccer -- Collective search by mobile robots using alpha-beta coordination -- A knowledge-level approach for building human-machine cooperative environment.

Sommario/riassunto

This book constitutes the refereed proceedings of the First International Workshop on Collective Robotics, CRW'98, held as part of the Agents' World 1998 conference in Paris, France, in July 1998. The 13 revised full papers presented in the book were selected during a vigorous reviewing process. The book brings together research in distributed artificial intelligence and intelligent robotics. Among the topics addressed are multi-agent collaboration, collective learning, self-organization, artificial life, simulation, mobile robots, robot soccer, human-robot cooperation, etc.
