1.	Record Nr.	UNINA9910145795503321
	Autore	Schumacher Michael
	Titolo	Objective Coordination in Multi-Agent System Engineering : Design and Implementation / / by Michael Schumacher
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001
	ISBN	3-540-44933-7
	Edizione	[1st ed. 2001.]
	Descrizione fisica	1 online resource (XIV, 154 p.)
	Collana	Lecture Notes in Artificial Intelligence ; ; 2039
	Disciplina	005.11
	Soggetti	Computer programming
		Software engineering
		Computer architecture
		Artificial intelligence
		Computer networks
		Programming Techniques
		Software Engineering/Programming and Operating Systems
		Computer System Implementation
		Artificial Intelligence
		Computer Communication Networks
		Software Engineering
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Positioning -- Multi-Agent Systems -- Coordination Models and Languages -- ECM and Its Instances -- The ECM Coordination Model -- The STL Coordination Language -- The STL++ Coordination Language -- The Agent & Co Coordination Language -- Case Studies in STL++ -- Collective Robotics Simulation -- Trading System Simulation -- Conclusion.
	Sommario/riassunto	Based on a suitably defined coordination model distinguishing between objective (inter-agent) coordination and subjective (intra-agent) coordination, this book addresses the engineering of multi-agent systems and thus contributes to closing the gap between research and applications in agent technology. After reviewing the state of the art,

the author introduces the general coordination model ECM and the corresponding object-oriented coordination language STL++. The practicability of ECM/STL++ is illustrated by the simulation of a particular collective robotics application and the automation of an e-commerce trading system. Situated at the intersection of behavior-based artificial intelligence and concurrent and distributed systems, this monograph is of relevance to the agent R&D community approaching agent technology from the distributed artificial intelligence point of view as well as for the distributed systems community.