



Distributed Autonomous Robotic Systems

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Book Condition: New. Publisher/Verlag: Springer, Berlin | As a new strategy to realize the goal of flexible, robust, fault-tolerant robotic systems, the distributed autonomous approach has quickly established itself as one of the fastest growing fields in robotics. This book is one of the first to devote itself solely to this exciting area of research, covering such topics as self-organization, communication and coordination, multi-robot manipulation and control, distributed system design, distributed sensing, intelligent manufacturing systems, and group behavior. The fundamental technologies and system architectures of distributed autonomous robotic systems are expounded in detail, along with the latest research findings. This book should prove indispensable not only to those involved with robotic engineering but also to those in the fields of artificial intelligence, self-organizing systems, and coordinated control. | 1: Introduction.- Trends of Distributed Autonomous Robotic Systems.- Manufacturing in the Future - Some Topics of IMS -.- 2: Distributed System Design.- Hierarchical Control Architecture with Learning and Adaptation Ability for Cellular Robotic System.- Optimization of the Distributed Systems by Autonomous Cooperation - Distributed Maximum Principle -.- Fault-Tolerance and Error Recovery in an Autonomous Robot with Distributed Controlled Components.- A Human Interface for Interacting with and Monitoring the Multi-Agent Robotic System.- 3:...



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