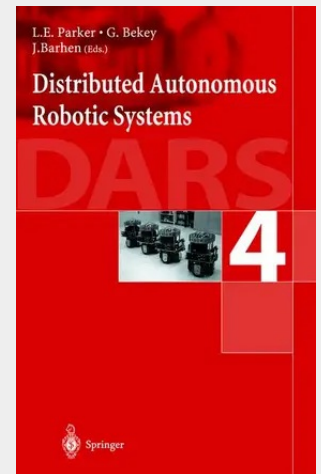


Distributed Autonomous Robotic Systems 4

The Fifth International Symposium on Distributed Autonomous Robotic Systems (DARS 2000) dealt with new strategies to realize complex, modular, robust, and fault-tolerant robotic systems. Technologies, algorithms, and system architectures for distributed autonomous robotic systems were presented and discussed during the meeting. DARS 2000 was truly an international event, with participants representing eleven countries from Europe, Asia, and the Americas. All of the papers in this volume were presented at DARS 2000, and were selected on the basis of peer reviews to ensure quality and relevance. These papers have the common goal of contributing solutions to realize robust and intelligent multirobot systems. The topics of the symposium address a wide range of issues that are important in the development of decentralized robotic systems. These topics include architectures, communication, biological inspirations, reconfigurable robots, localization, exploration and mapping, distributed sensing, multi robot motion coordination, target assignment and tracking, multirobot learning, and cooperative object transport. DARS clearly requires a broad area of interdisciplinary technologies related not only to robotics and computer engineering, but also to biology and psychology. The DARS symposium is the leading established conference on distributed autonomous systems. The First, Second, and Third International Symposia on Distributed Autonomous Robotic Systems (DARS '92, DARS '94, and DARS '96) were held at the Institute of Physical and Chemical Research (RIKEN), Saitama, Japan.

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