

Self-organizing robots

Satoshi Murata, author

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Abstrak

The theme of this book is to examine the feasibility of creating such robots within the limitations of current mechanical engineering. The topics comprise the following aspects of such a pursuit : the philosophy of design of self-organizing mechanical systems, self-organization in biological systems, the history of self-organizing mechanical systems, a case study of a self-assembling/self-repairing system as an autonomous distributed system, a self-organizing robot that can create its own shape and robotic motion, implementation and instrumentation of self-organizing robots, and the future of self-organizing robots. All topics are illustrated with many up-to-date examples.