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Decentralized Coverage Control Problems FOR Mobile Robotic Sensor AND Actuator Networks

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Andrey U. Saukin and

**Decentralized Coverage Control Problems For Mobile Robotic Sensor and Actuator
Networks (IEEE Press Series on Systems Science and Engineering)**



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This book introduces various coverage control problems for mobile sensor networks including barrier, sweep and blanket. These numerous kinds of coverage problems haven't been protected before by a single publication in a systematic way. Many modern engineering applications are the usage of sensor and actuator systems to provide efficient and effective monitoring and control of commercial and environmental procedures. Unlike many existing algorithms, all of the robotic sensor and actuator motion algorithms developed in the book are fully decentralized or distributed, computationally efficient, conveniently implementable in engineering practice and structured only on info on the closest neighbours of each cellular sensor and actuator and regional information about the environment. Another topic of the book is the study of mobile robotic sensor and actuator networks. Moreover, the cellular robotic sensors haven't any prior info about the environment where they operation. Such cellular sensor and actuator systems are able to achieve improved efficiency and efficient monitoring as well as reduction in power consumption and production cost.



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