

# Foundations and Applications of Sensor Management

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## Reviews

Simply no phrases to clarify. It is really basic but surprises from the 50 percent of the ebook. Once you begin to read the book, it is extremely difficult to leave it before concluding. (Mr. Noah Cummerata IV)

## FOUNDATIONS AND APPLICATIONS OF SENSOR MANAGEMENT



Springer-Verlag Gmbh Nov 2007, 2007. Buch. Condition: Neu. Neuware - Foundations and Applications of Sensor Management presents the emerging theory of sensor management with applications to real-world examples such as landmine detection, adaptive signal and image sampling, multi-target tracking, and radar waveform scheduling. It is written by leading experts in the field for a diverse engineering audience ranging from signal processing, to automatic control, statistics, and machine learning. The level of treatment of the book is tutorial and self-contained.The chapters of the book followa logical development from theoretical foundations to approximate approaches and ending with applications. The coverage includes the following topics: stochastic control foundations of sensor management; multi-armed bandits and their connections to sensor management; information-theoretic approaches; managed sensing for multi-target tracking; approximation methods based on embedded simulation; active learning for classification and sampling; and waveform scheduling for radar. An appendix is included to provide essential background on topics the reader may not have encountered as a first-year graduate student: Markov decision processes; information theory; and stopping times.Foundations and Applications of Sensor Management is an important reference for signal processing and control engineers and researchers as well as machine learning application developers. 310 pp. Englisch.

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